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Please note: When the Register deadline falls on a State holiday, the deadline becomes 4:30 p.m. on Monday *(the day before).*

Printed by authority of the
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December 1992 – 890 – GA-735

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

1) The Heading of the Part: Pay Plan

2) The Code Citation: 80 Ill. Adm. Code 310

3) Section Numbers: Proposed Action:

310.30	Amended
310.40	Amended
310.230	Amended
310.270	Amended
310. Appendix A	Amended
Table C	Amended
Table D	Amended
Table E	Amended
Table F	Amended
Table O	Amended
Table P	Amended
Table U	Amended

4) Statutory Authority: Ill. Rev. Stat. ~~1989~~ 1991, ch. 127, par. 63b108a(2)

5) A Complete Description of the Subjects and Issues Involved:

In Section 310.30 and 310.40, the date of the Illinois Revised Statutes is being changed from the year of 1989 to 1991 to reflect the latest publication.

In Section 310.230, Part-time Daily or Hourly Special Services Rate, the title of Account Technician II is being added with the rate of $11.00 to $14.08 (hourly) and $83.00 to $106.00 (daily). Also, the Office Clerk with the rate of $4.25 to $10.01 (hourly) and $61.00 to 75.00 (daily) is being added at the request of the Department of Revenue.

The maximum hourly rate of the Office Aide is being revised from $7.50 to $9.34 with the inclusion of a daily rate of $42.00 to $70.00. The Office Assistant's maximum hourly rate is being revised from $8.75 to $10.78 with the maximum daily rate changing from $65.00 to $81.00. The Office Associate's maximum hourly rate is being revised from $9.50 to $11.71 with the inclusion of a daily rate of $42.00 to $88.00.

The abolished title of Laboratory Technician II is being deleted.

The Tax Examiner's daily rate is being revised from $53.00 to $73.00 to $73.00 to $92.00 with the inclusion of a hourly rate of $9.69 to $12.21.

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

In Section 310.270, Legislated and Contracted Rate, the annual salary of the Arbitrator class is being changed from $59,000 to $64,008 to reflect the new Fiscal Year increase as per statutory requirements.

In Section 310. Appendix A, Table C (RC-069, Firefighters), the salary ranges of the Facility Assistant Fire Chief, Facility Fire Safety Coordinator, and Facilty Firefighter are being corrected as reflected in the text.

In Section 310. Appendix A, Table D (HR-001, Teamsters), the title of Maintenance Equipment Operator (Dispatcher) is being added with the monthly rate of $2,918.00, effective September 1, 1992.

In Section 310. Appendix A, Tables E and F (RC-020 and RC-019, Teamsters), the title of Power Shovel Operator (Maintenance) (Bridge Crew) is being added with the monthly rate of $2,812.40, effective July 1, 1992.

In Section 310. Appendix A, Table O (RC-028, Paraprofessional Human Services Employees, AFSCME), the abolished titles of Unemployment Insurance Claims Technican I, II, and III are being deleted.

In Section 310. Appendix A, Table P (RC-029, Paraprofessional Investigatory and Law Enforcement Employees, ISEA), the salary ranges of the Fire Prevention Inspector I and II are being corrected for July 1, 1992.

In Section 310. Appendix A, Table U (HR-010, Teachers of the Deaf, Extracurricular Paid Activities), is being revised to reflect the latest negotiations for the School Year 1991-1992 as shown in the text.

6) Will this proposed rule replace an emergency rule currently in effect?

No.

7) Does this rulemaking contain an automatic repeal date? ___Yes _X_No
If "yes", please specify date:

8) Do these proposed amendments contain any incorporations by reference?

No.

9) Are there any proposed amendments pending to this part? Yes

Section Numbers	Proposed Action	Ill. Reg. Citation
310.290	Amended	16 Ill. Reg. 6521 (April 24, 1992)

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

310. Appendix A, Table M	Amended	16 Ill. Reg. 13679 (September 11, 1992)
310.110	Amended	16 Ill. Reg. 13679 (September 11, 1992)
310.130	Amended	16 Ill. Reg. 13679 (September 11, 1992)
310. Appendix B	Amended	16 Ill. Reg. 13679 (September 11, 1992)
310.290	Amended	16 Ill. Reg. 14001 (September 18, 1992)
310.450	Amended	16 Ill. Reg. 14001 (September 18, 1992)
310.455	Amended	16 Ill. Reg. 14001 (September 18, 1992)
310.470	Amended	16 Ill. Reg. 14001 (September 18, 1992)
310.530	Amended	16 Ill. Reg. 14001 (September 18, 1992)
310.540	Amended	16 Ill. Reg. 14001 (September 18, 1992)
310. Appendix C	Amended	16 Ill. Reg. 14001 (September 18, 1992)
310. Appendix D	Amended	16 Ill. Reg. 14001 (September 18, 1992)

10) Statement of Statewide Objectives:

These amendments to the Pay Plan pertain only to State employees subject to the Personnel Code and do not set out any guidelines that are to be followed by local or other jurisdictional bodies within the State.

11) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking:

Mr. Michael Murphy
Department of Central Management Services
Division of Technical Services
504 William G. Stratton Building
Springfield, Illinois 62706
Telephone: (217) 782-5601

12) Initial Regulatory Flexibility Analysis:

A) Date rule was submitted to the Business Assistance Office of the Department of Commerce and Community Affairs:

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

The Department of Central Management Services' Pay Plan does not affect private businesses. Amendments made to the Pay Plan are not subject to any guidelines or regulations of the Department of Commerce and Community Affairs.

B) Types of small businesses affected:

None. The Department of Central Management Services' Pay Plan extends only to Personnel Code employees under the jurisdiction of the Governor.

C) Reporting, bookkeeping or other procedures required for compliance:

None.

D) Types of professional skills necessary for compliance:

None.

The full text of the proposed amendment(s) begins on the next page.

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

TITLE 80: PUBLIC OFFICIALS AND EMPLOYEES
SUBTITLE B: PERSONNEL RULES, PAY PLANS, AND POSITION CLASSIFICATIONS
CHAPTER I: DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

PART 310
PAY PLAN

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310.30 Jurisdiction
310.40 Pay Schedules
310.50 Definitions
310.60 Conversion of Base Salary to Pay Period Units
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310.80 Increases in Pay
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310.100 Other Pay Provisions
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310.120 Interpretation and Application of Pay Plan
310.130 Effective Date
EMERGENCY
310.140 Reinstitution of Within Grade Salary Increases
310.150 Fiscal Year 1985 Pay Changes in Schedule of Salary Grades, effective July 1, 1984 (Repealed)

SUBPART B: SCHEDULE OF RATES

Section
310.205 Introduction
310.210 Prevailing Rate
310.220 Negotiated Rate
310.230 Part-Time Daily or Hourly Special Services Rate
310.240 Hourly Rate
310.250 Member, Patient and Inmate Rate
310.260 Trainee Rate
310.270 Legislated and Contracted Rate
310.280 Designated Rate
310.290 Out-of-State or Foreign Service Rate
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310.300 Educator Schedule for RC-063 and HR-010
310.310 Physician Specialist Rate
310.320 Annual Compensation Ranges for Executive Director and Assistant Executive Director, State Board of Elections
310.330 Excluded Classes Rate (Repealed)

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

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Section
310.410 Jurisdiction
310.420 Objectives
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310.440 Merit Compensation Salary Schedule
310.450 Procedures for Determining Annual Merit Increases
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310.530 Implementation
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310.550 Fiscal Year 1985 Pay Changes in Merit Compensation System, effective July 1, 1984 (Repealed)

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TABLE A HR-190 (Department of Central Management Services - State of Illinois Building - SEIU)
TABLE B HR-200 (Department of Labor - Chicago, Illinois - SEIU)
TABLE C RC-069 (Firefighters, AFSCME)
TABLE D HR-001 (Teamsters Local #726)
TABLE E RC-020 (Teamsters Local #330)
TABLE F RC-019 (Teamsters Local #25)
TABLE G RC-045 (Automotive Mechanics, ISEA)
TABLE H RC-006 (Corrections Employees, AFSCME)
TABLE I RC-009 (Institutional Employees, AFSCME)
TABLE J RC-014 (Clerical Employees, AFSCME)
TABLE K RC-023 (Registered Nurses, INA)
TABLE L VR-004 (Illinois State Treasurer's Office Employees, Teamsters and IFT)
TABLE M RC-027 (Educators, AFSCME) (Repealed)
TABLE N RC-027 (Physician Rates, AFSCME) (Repealed)
TABLE O RC-028 (Paraprofessional Human Services Employees, AFSCME)
TABLE P RC-029 (Paraprofessional Investigatory and Law Enforcement Employees, ISEA)
TABLE Q RC-033 (Meat Inspectors, ISEA)

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NOTICE OF PROPOSED AMENDMENTS

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AUTHORITY: Implementing and authorized by Section 8a(2) of the Personnel Code (Ill. Rev. Stat. ~~1989~~ 1991, ch. 127, par. 63b108a(2)).

SOURCE: Filed June 28, 1967; codified at 8 Ill. Reg. 1558; emergency amendment at 8 Ill. Reg. 1990, effective January 31, 1984, for a maximum of 150 days; amended at 8 Ill. Reg. 2440, effective February 15, 1984; emergency amendment at 8 Ill. Reg. 3348, effective March 5, 1984, for a maximum of 150 days; emergency amendment at 8 Ill. Reg. 4249, effective March 16, 1984, for a maximum of 150 days; emergency amendment at 8 Ill. Reg. 5704, effective April 16, 1984, for a maximum of 150 days; emergency amendment at 8 Ill. Reg. 7290, effective May 11, 1984, for a maximum of 150 days; amended at 8 Ill. Reg. 11299, effective June 25, 1984; emergency amendment at 8 Ill. Reg. 12616, effective July 1, 1984, for a maximum of 150 days; emergency amendment at 8 Ill. Reg. 15007, effective August 6, 1984, for a maximum of 150 days; amended at 8 Ill. Reg. 15367, effective August 13, 1984; emergency amendment at 8 Ill. Reg. 21310, effective October 10, 1984, for a maximum of 150 days; amended at 8 Ill. Reg. 21544, effective October 24, 1984; amended at 8 Ill. Reg. 22844, effective November 14, 1984; emergency amendment at 9 Ill. Reg. 1134, effective January 16, 1985, for a maximum of 150 days; amended at 9 Ill. Reg. 1320, effective January 23, 1985; amended at 9 Ill. Reg. 3681, effective March 12, 1985; emergency amendment at 9 Ill. Reg. 4163, effective March 15, 1985, for a maximum of 150 days; emergency amendment at 9 Ill. Reg. 9231, effective May 31, 1985, for a maximum of 150 days; amended at 9 Ill. Reg. 9420, effective June 7, 1985; amended at 9 Ill. Reg. 10663, effective July 1, 1985; emergency amendment at 9 Ill. Reg. 15043, effective September 24, 1985, for a maximum of 150 days; peremptory amendment at 10 Ill. Reg. 3325, effective January 22, 1986; amended at 10 Ill. Reg. 3230, effective January 24, 1986; emergency amendment at 10 Ill. Reg. 8904, effective May 13, 1986, for a maximum of

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

150 days; peremptory amendment at 10 Ill. Reg. 8928, effective May 13, 1986; emergency amendment at 10 Ill. Reg. 12090, effective June 30, 1986, for a maximum of 150 days; peremptory amendment at 10 Ill. Reg. 13675,effective July 31, 1986; peremptory amendment at 10 Ill. Reg. 14867, effective August 26, 1986; amended at 10 Ill. Reg. 15567, effective September 17, 1986; emergency amendment at 10 Ill. Reg. 17765, effective September 30, 1986, for a maximum of 150 days; peremptory amendment at 10 Ill. Reg. 19132, effective October 28, 1986; peremptory amendment at 10 Ill. Reg. 21097, effective December 9, 1986; amended at 11 Ill. Reg. 648, effective December 22, 1986; peremptory amendment at 11 Ill. Reg. 3363, effective February 3, 1987; peremptory amendment at 11 Ill. Reg. 4388, effective February 27, 1987; peremptory amendment at 11 Ill. Reg. 6291, effective March 23, 1987; amended at 11 Ill. Reg. 5901, effective March 24, 1987; emergency amendment at 11 Ill. Reg. 8787, effective April 15, 1987, for a maximum of 150 days; emergency amendment at 11 Ill. Reg. 11830, effective July 1, 1987, for a maximum of 150 days; peremptory amendment at 11 Ill. Reg. 13675, effective July 29, 1987; amended at 11 Ill. Reg. 14984, effective August 27, 1987; peremptory amendment at 11 Ill. Reg. 15273, effective September 1, 1987; peremptory amendment at 11 Ill. Reg. 17919, effective October 19, 1987; peremptory amendment at 11 Ill. Reg. 19812, effective November 19, 1987; emergency amendment at 11 Ill. Reg. 20664, effective December 4, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 20778, effective December 11, 1987; peremptory amendment at 12 Ill. Reg. 3811, effective January 27, 1988; peremptory amendment at 12 Ill. Reg. 5459, effective March 3, 1988; amended at 12 Ill. Reg. 6073, effective March 21, 1988; peremptory amendment at 12 Ill. Reg. 7783, effective April 14, 1988; emergency amendment at 12 Ill. Reg. 7734, effective April 15, 1988, for a maximum of 150 days; peremptory amendment at 12 Ill. Reg. 8135, effective April 22, 1988; peremptory amendment at 12 Ill. Reg. 9745, effective May 23, 1988; emergency amendment at 12 Ill. Reg. 11778, effective July 1, 1988, for a maximum of 150 days; emergency amendment at 12 Ill. Reg. 12895, effective July 18, 1988, for a maximum of 150 days; peremptory amendment at 12 Ill. Reg. 13306, effective July 27, 1988; corrected at 12 Ill. Reg. 13359; amended at 12 Ill. Reg. 14630, effective September 6, 1988; amended at 12 Ill. Reg. 20449, effective November 28, 1988; peremptory amendment at 12 Ill. Reg. 20584, effective November 28, 1988; peremptory amendment at 13 Ill. Reg. 8080, effective May 10, 1989; amended at 13 Ill. Reg. 8849, effective May 30, 1989; peremptory amendment at 13 Ill. Reg. 8970, effective May 26, 1989; emergency amendment at 13 Ill. Reg. 10967, effective June 20, 1989, for a maximum of 150 days; emergency amendment expired on November 17, 1989; amended at 13 Ill. Reg. 11451, effective June 28, 1989; emergency amendment at 13 Ill. Reg. 11854, effective July 1, 1989, for a maximum of 150 days; corrected at 13 Ill. Reg. 12647; peremptory amendment at 13 Ill. Reg. 12887, effective July 24, 1989; amended at 13 Ill. Reg. 16950, effective October 20, 1989; amended at 13 Ill. Reg. 19221, effective December 12, 1989; amended at

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14 Ill. Reg. 615, effective January 2, 1990; peremptory amendment at 14 Ill. Reg. 1627, effective January 11, 1990; amended at 14 Ill. Reg. 4455, effective March 12, 1990; peremptory amendment at 14 Ill. Reg. 7652, effective May 7, 1990; amended at 14 Ill. Reg. 10002, effective June 11, 1990; emergency amendment at 14 Ill. Reg. 11330, effective June 29, 1990, for a maximum of 150 days; amended at 14 Ill. Reg. 14361, effective August 24, 1990; emergency amendment at 14 Ill. Reg. 15570, effective September 11, 1990, for a maximum of 150 days; emergency amendment expired on February 8, 1991; corrected at 14 Ill. Reg. 16092; peremptory amendment at 14 Ill. Reg. 17098, effective September 26, 1990; amended at 14 Ill. Reg. 17189, effective October 2, 1990; amended at 14 Ill. Reg. 17189, effective October 19, 1990; amended at 14 Ill. Reg. 18719, effective November 13, 1990; peremptory amendment at 14 Ill. Reg. 18854, effective November 13, 1990; peremptory amendment at 15 Ill. Reg. 663, effective January 7, 1991; amended at 15 Ill. Reg. 3296, effective February 14, 1991; amended at 15 Ill. Reg. 4401, effective March 11, 1991; peremptory amendment at 15 Ill. Reg. 5100, effective March 20, 1991; peremptory amendment at 15 Ill. Reg. 5465, effective April 2, 1991, 1991; emergency amendment at 15 Ill. Reg. 10485, effective July 1, 1991, for a maximum of 150 days; amended at 15 Ill. Reg. 11080, effective July 19, 1991; amended at 15 Ill. Reg. 13080, effective August 21, 1991; amended at 15 Ill. Reg. 14210, effective September 23, 1991; emergency amendment at 16 Ill. Reg. 711, effective December 26, 1991, for a maximum of 150 days; amended at 16 Ill. Reg. 3450, effective February 20, 1992; peremptory amendment at 16 Ill. Reg. 5068, effective March 11, 1992; peremptory amendment at 16 Ill. Reg. 7056, effective April 20, 1992; emergency amendment at 16 Ill. Reg. 8239, effective May 19, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 8382, effective May 26, 1992; emergency amendment at 16 Ill. Reg. 13950, effective August 19, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 14452, effective September 4, 1992, for a maximum of 150 days; amended at ____ Ill. Reg. _____, effective _____.

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Section 310.30 Jurisdiction

All positions of employment in the service of the State of Illinois shall be subject to the provisions of this Part unless specifically excluded now, or hereafter, under Section 4(c) (General Exemptions) or Section 4(d) (Partial Exemptions) of the Personnel Code (Ill. Rev. Stat. ~~1989~~ 1991, ch. 127, pars. 63(b)101 et seq.) or other pertinent legislation. Those positions to which jurisdiction of the Personnel Code has been or may be later extended shall also be subject to the Provisions of this Part.

(Source: Amended at 16 Ill. Reg. _____, effective _____, 1992)

Section 310.40 Pay Schedules

The attached Schedule of Salary Grades (Appendix B), Schedule of Rates (Subpart B), Physician Administrator and Medical Facilities Administrator Rates (Appendix C) and the Merit Compensation System (Subpart C) are hereby made a part of this Part. Each employee subject to this Part, except those whose rates of pay is determined under the Schedule of Rates (Subpart B) or the Merit Compensation System (Subpart C) of this Part, or Section 8(a) of the Personnel Code (Ill. Rev. Stat. ~~1989~~ 1991, ch. 127, pars. 63(b)101 et seq.), shall be paid at a step in the appropriate salary grade in the Schedule of Salary Grades (Appendix B) for the class of positions in which he-she is employed.

(Source: Amended at 16 Ill. Reg. _____, effective _____, 1992)

Section 310.230 Part-time Daily or Hourly Special Services Rate

The rate of pay as approved by the Director of Central Management Services for persons employed on a consultative or part-time basis requiring irregular hours of work shall be as listed below, except the total compensation of an employee in any given month shall not exceed the monthly rate of Step 5 of the salary grade for the title as shown in the Schedule of Salary Grades (Appendix B) of this Part if the class title is subject to the Schedule of Salary Grades, or Step 5 of the negotiated salary range for classes of positions shown in Section 310.220, Subpart B, Schedule of Rates, or 75% of the maximum rate of those classes of positions subject to the provisions of the Merit Compensation System, Subpart C of this Pay Plan.

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NOTICE OF PROPOSED AMENDMENTS

Account Technician II	11.00 to 14.08 (hourly) 83 to 106 (daily)
Apiary Inspector	32 to 50
Building-Grounds Laborer	4.25 to 6.00 (per hour)
Building-Grounds Lead I	4.25 to 7.00 (per hour)
Building-Grounds Lead II	5.25 to 8.00 (per hour)
Building-Grounds Maintenance Worker	5.00 to 6.00 (per hour)
Chaplain I	32 to 70
Chemist I	32 to 45
Conservation-Historic Preservation Worker	4.50 (per hour)
Conservation-Historic Preservation Worker (2nd season -- site interpretation)	4.64 (per hour)
Conservation-Historic Preservation Worker (3rd season -- site interpretation)	4.78 (per hour)
Dentist I	70 to 150
Dentist II	100 to 185
Educator	32 to 60
Educator Aide	32 to 35
Guard II	67 to 84
Guard III	75 to 96
Hearing and Speech Coordinator	15 to 30 (per hour)
Hearings Referee	75 to 200
Janitor I	4.73 to 5.30 (per hour)
Labor Maintenance Lead Worker	5.00 to 6.00 (per hour)
Labor Relations Investigator	35 to 70
~~Laboratory Technician II~~	~~32 to 40~~
Laborer (Maintenance)	4.25 to 5.50 (per hour)
Maintenance Worker	4.25 to 5.00 (per hour)
Occupational Therapist Program Coordinator	40 to 160
Office Aide	4.25 to ~~7.50~~ 9.34 (~~per hour~~ hourly) 42 to 70 (daily)
Office Assistant	4.25 to ~~8.75~~ 10.78 (~~per hour~~ hourly) 42 to ~~65~~ 81 (daily)
Office Associate	4.25 to ~~9.50~~ 11.71 (~~per hour~~ hourly) 42 to 88 (daily)
Office Clerk	4.25 to 10.01 (hourly) 61 to 75 (daily)
Optometrist	15 to 35 (hourly) 50 to 160 (daily)

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Physician	100 to 300
Physician Specialist (A)	20 to 60 (hourly) 100 to 325 (daily)
Physician Specialist (B)	20 to 70 (hourly) 100 to 350 (daily)
Physician Specialist (C)	20 to 75 (hourly) 100 to 360 (daily)
Physician Specialist (D)	20 to 85 (hourly) 100 to 370 (daily)
Podiatrist	50 to 125
Psychologist I	35 to 80
Psychologist II	40 to 125
Psychologist III	40 to 150
Recreation Worker I	32 to 40
Recreation Worker I	5.33 (per hour)
Registered Nurse I	39 to 54
Registered Nurse I (2nd or 3rd shift)	41 to 56
Registered Nurse I (Cook County)	43 to 58
Registered Nurse I (Cook County--2nd or 3rd shift)	44 to 59
Registered Nurse II	43 to 58
Registered Nurse II (2nd or 3rd shift)	44 to 59
Registered Nurse II (Cook County)	45 to 60
Registered Nurse II (Cook County--2nd or 3rd shift)	47 to 62
Social Worker II	35 to 75
Social Worker III	35 to 80
Student Worker	4.25 to 8.00 (per hour)
Tax Examiner	~~53 to 73~~ 9.69 to 12.21 (hourly) 73 to 92 (daily)
Technical Advisor II	32 to 35 (per hour)
Technical Advisor III	32 to 60 (per hour)
Technical Advisor IV	50 to 80 (per hour)
Veterinarian II	95 to 130 (daily)

(Source: Amended at 16 Ill. Reg. _____, effective _____, 1992)

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Section 310.270 Legislated and Contracted Rate

The rate of pay for employees occupying positions which require payment in accordance with specified rates set forth in legislation or by contract. The positions and rates of pay in this section are as follows:

	Annual Salary
Arbitrator	~~$59,000~~ $64,008

When an Arbitrator is serving as an acting Commissioner of the Illinois Industrial Commission, the appropriate rate will be the same as the rate set for a Commissioner.

(Source: Amended at 16 Ill. Reg. _____, effective _____, 1992)

Section 310. Appendix A Negotiated Rates of Pay
TABLE C RC-069 (Firefighters, AFSCME)

~~Effective: July 1, 1991~~

	S-T-E-P-S						
	~~1~~	~~2~~	~~3~~	~~4~~	~~5~~	~~6~~	~~7~~
~~Facility Assistant Fire Chief~~	~~1687~~	~~1755~~	~~1819~~	~~1889~~	~~1960~~	~~2030~~	~~2146~~
~~Facility Fire Safety Coordinator~~	~~1687~~	~~1755~~	~~1819~~	~~1889~~	~~1960~~	~~2030~~	~~2146~~
~~Facility Firefighter~~	~~1562~~	~~1615~~	~~1678~~	~~1735~~	~~1796~~	~~1856~~	~~1953~~

~~NOTE: Effective January 1, 1992, employees who have 15 years of service and have 3 or more years of creditable service on Step 7 in the same pay grade shall receive an additional $25.00 monthly.~~

Effective: July 1, 1992

	STEPS						
	1	2	3	4	5	6	7
Facility Assistant Fire Chief	~~1729~~	~~1799~~	~~1864~~	~~1974~~	~~2048~~	~~2121~~	~~2243~~
	1729	1799	1864	1936	2009	2081	2200
Facility Fire Safety Coordinator	~~1729~~	~~1799~~	~~1864~~	~~1974~~	~~2048~~	~~2121~~	~~2243~~
	1729	1799	1864	1936	2009	2081	2200
Facility Firefighter	~~1632~~	~~1688~~	~~1754~~	~~1813~~	~~1877~~	~~1940~~	~~2041~~
	1601	1655	1720	1778	1841	1902	2002

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Effective: January 1, 1993

	STEPS						
	1	2	3	4	5	6	7
Facility Assistant Fire Chief	~~1764~~	~~1835~~	~~1901~~	~~2013~~	~~2089~~	~~2163~~	~~2288~~
	1764	1835	1901	1975	2049	2123	2244
Facility Fire Safety Coordinator	~~1764~~	~~1835~~	~~1901~~	~~2013~~	~~2089~~	~~2163~~	~~2288~~
	1764	1835	1901	1975	2049	2123	2244
Facility Firefighter	~~1665~~	~~1722~~	~~1789~~	~~1849~~	~~1915~~	~~1979~~	~~2082~~
	1633	1688	1754	1814	1878	1940	2042

Effective: July 1, 1993

	STEPS						
	1	2	3	4	5	6	7
Facility Assistant Fire Chief	~~1852~~	~~1927~~	~~1996~~	~~2114~~	~~2193~~	~~2271~~	~~2402~~
	1852	1927	1996	2074	2151	2229	2356
Facility Fire Safety Coordinator	~~1852~~	~~1927~~	~~1996~~	~~2114~~	~~2193~~	~~2271~~	~~2402~~
	1852	1927	1996	2074	2151	2229	2356
Facility Firefighter	~~1748~~	~~1808~~	~~1878~~	~~1941~~	~~2011~~	~~2078~~	~~2186~~
	1715	1772	1842	1905	1972	2037	2144

(Source: Amended at 16 Ill. Reg. _____, effective _____, 1992)

Section 310. Appendix A Negotiated Rates of Pay
TABLE D HR-001 (Teamsters Local #726)

A) Department of Transportation - Division of Highways - Emergency Patrol - Northeast Region - (Cook)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Highway Maintainer	~~2753.00~~	~~15.82~~	2820.00	16.21
Highway Maintenance Lead Worker	~~2882.00~~	~~16.56~~	2949.00	16.95
Highway Maintenance Lead Worker (Lead Lead Worker)	~~2932.00~~	~~16.85~~	2999.00	17.24
Maintenance Worker	~~2697.00~~	~~15.50~~	2764.00	15.89

B) Department of Transportation - Division of Highways - Northeast Region - (Cook)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Heavy Construction Equipment Operator	~~2777.00~~	~~15.96~~	2844.00	16.34
Heavy Construction Equipment Operator (Bridge Crew)	~~2794.40~~	~~16.06~~	2861.40	16.44

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Highway Maintainer	~~2678.00--15.39~~	2745.00	15.78
Highway Maintainer (Bridge Crew)	~~2695.40--15.49~~	2762.40	15.88
Highway Maintainer (Tractor Mower)	~~2678.00--15.39~~	2745.00	15.78
Highway Maintenance Laborer	----------	---	---
Highway Maintenance Lead Worker	~~2807.00--16.13~~	2874.00	16.52
Highway Maintenance Lead Worker (Bridge Crew)	~~2824.40--16.23~~	2891.40	16.62
Highway Maintenance Lead Worker (Lead Lead Worker)	~~2857.00--16.42~~	2924.00	16.80
Highway Maintenance Lead Worker (Lead Lead Worker - Bridge Crew)	~~2874.40--16.52~~	2941.40	16.90
Laborer (Maintenance)	~~2586.00--14.86~~	2653.00	15.25
Maintenance Worker	~~2622.00--15.07~~	2689.00	15.45

C) Departments of Mental Health & Developmental Disabilities, Public Health, Rehabilitation Services, and Employment Security - Northeast Region - (Cook)

	~~July 1, 1991~~ Mo.	~~Hr.~~	July 1, 1992 Mo.	Hr.
Maintenance Equipment Operator	~~2678.00~~	~~15.39~~	2745.00	15.78
Maintenance Worker	~~2531.00~~	~~14.55~~	2598.00	14.93

	Sept. 15, 1992 Mo.	Hr.
Maintenance Equipment Operator (Dispatcher)	2918.00	16.77

D) Departments of Central Management Services, Children and Family Services, and Public Aid - Northeast Region - (Cook)

	~~July 1, 1991~~ Mo.	~~Hr.~~	~~January 1, 1992~~ Mo.	~~Hr.~~	July 1, 1992 Mo.	Hr.
Grounds Lead Worker	---	---			---	---
Grounds Supervisor	~~2564.00~~	~~14.74~~			2631.00	15.12
Grounds Supervisor (Chicago-Read)	~~2644.00~~	~~15.20~~	~~2731.00~~	~~15.70~~	2798.00	16.08
Grounds Supervisor (Supervising Tractor Trailer Drivers)	~~2764.00~~	~~15.89~~	~~2851.00~~	~~16.39~~	2918.00	16.77
Maintenance Worker	~~2531.00~~	~~14.55~~			2598.00	14.93
Maintenance Worker (Chicago-Read)	~~2531.00~~	~~14.55~~	~~2678.00~~	~~15.39~~	2745.00	15.78
Maintenance Equipment Operator	~~2678.00~~	~~15.39~~			2745.00	15.78
Maintenance Equipment Operator (Tractor Trailer)	~~2739.00~~	~~15.74~~			2806.00	16.13

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

E) Department of Transportation - Division of Highways - Emergency Patrol - Northeast Region - (Cook)

	Jan. 1, 1993 Mo.	Hr.	July 1, 1993 Mo.	Hr.
Highway Maintainer	2875.00	16.52	3015.00	17.33
Highway Maintenance Lead Worker	3004.00	17.26	3144.00	18.07
Highway Maintenance Lead Worker (Lead Lead Worker)	3054.00	17.55	3194.00	18.36
Maintenance Worker	2819.00	16.20	2959.00	17.01

F) Department of Transportation - Division of Highways - Northeast Region - (Cook)

	Jan. 1, 1993 Mo.	Hr.	July 1, 1993 Mo.	Hr.
Heavy Construction Equipment Operator	2899.00	16.66	3039.00	17.47
Heavy Construction Equipment Operator (Bridge Crew)	2916.40	16.76	3056.40	17.57
Highway Maintainer	2800.00	16.09	2940.00	16.90
Highway Maintainer (Bridge Crew)	2817.40	16.19	2957.40	17.00
Highway Maintainer (Tractor Mower)	2800.00	16.09	2940.00	16.90
Highway Maintenance Lead Worker	2929.00	16.83	3069.00	17.64
Highway Maintenance Lead Worker (Bridge Crew)	2946.40	16.93	3086.40	17.74
Highway Maintenance Lead Worker (Lead Lead Worker)	2979.00	17.12	3119.00	17.93
Highway Maintenance Lead Worker (Lead Lead Worker - Bridge Crew)	2996.40	17.22	3136.40	18.03
Laborer (Maintenance)	2708.00	15.56	2848.00	16.37
Maintenance Worker	2744.00	15.77	2884.00	16.57

G) Departments of Mental Health & Developmental Disabilities, Public Health, Rehabilitation Services, and Employment Security - Northeast Region - (Cook)

	Jan. 1, 1993 Mo.	Hr.	July 1, 1993 Mo.	Hr.
Maintenance Equipment Operator	2800.00	16.09	2940.00	16.90
Maintenance Equipment Operator (Dispatcher)	2974.00	17.09	3014.00	17.90
Maintenance Worker	2653.00	15.25	2793.00	16.05

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

H) Departments of Central Management Services, Children and Family Services, and Public Aid - Northeast Region - (Cook)

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Grounds Supervisor	2686.00	15.44	2826.00	16.24
Grounds Supervisor (Chicago-Read)	2853.00	16.40	2993.00	17.20
Grounds Supervisor (Supervising Tractor Trailer Drivers)	2973.00	17.09	3113.00	17.89
Maintenance Worker	2653.00	15.25	2793.00	16.05
Maintenance Worker (Chicago-Read)	2800.00	16.09	2940.00	16.90
Maintenance Equipment Operator	2800.00	16.09	2940.00	16.90
Maintenance Equipment Operator (Tractor Trailer)	2861.00	16.44	3001.00	17.25

(Source: Amended at 16 Ill. Reg. _____, effective _____)

Section 310. Appendix A Negotiated Rates of Pay
TABLE E RC-020 (Teamsters Local #330)

A) Departments of Children and Family Services, Corrections, Employment Security, Mental Health & Developmental Disabilities - (Counties of DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Maintenance Equipment Operator	~~2678.00~~	~~15.39~~	2745.00	15.78

B) Department of Transportation - Division of Highways - (Counties of DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Bridge Mechanic	~~2711.00~~	~~15.58~~	2778.00	15.97
Bridge Tender	~~2510.00~~	~~14.43~~	2577.00	14.81
Highway Maintenance Lead Worker	~~2807.00~~	~~16.13~~	2874.00	16.52
Highway Maintenance Lead Worker (Bridge Crew)	~~2824.40~~	~~16.23~~	2891.40	16.62
Highway Maintenance Lead Worker (Lead Lead Worker)	~~2857.00~~	~~16.42~~	2924.00	16.80
Highway Maintainer	~~2678.00~~	~~15.39~~	2745.00	15.78

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Highway Maintainer (Bridge Crew)	~~2695.40~~	~~15.49~~	2762.40	15.88
Janitor I	~~2385.00~~	~~13.71~~	2452.00	14.09
Janitor II	~~2416.00~~	~~13.89~~	2483.00	14.27
Labor Maintenance Lead Worker	~~2642.00~~	~~15.18~~	2709.00	15.57
Laborer (Maintenance)	~~2586.00~~	~~14.86~~	2653.00	15.25
Maintenance Worker	~~2622.00~~	~~15.07~~	2689.00	15.45
Power Shovel Operator (Maintenance)	~~2728.00~~	~~15.68~~	2795.00	16.06
Power Shovel Operator (Maintenance) (Bridge Crew)			2812.40	16.60
Security Guard I	~~2412.00~~	~~13.86~~	2479.00	14.25
Security Guard II	~~2460.00~~	~~14.14~~	2527.00	14.52
Silk Screen Operator	~~2782.00~~	~~15.99~~	2849.00	16.37

C) Department of Central Management Services - Division of Vehicles - (Counties of DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Janitor I	~~2385.00~~	~~13.71~~	2452.00	14.09
Janitor II	~~2416.00~~	~~13.89~~	2483.00	14.27
Maintenance Equipment Operator (all divisions)	~~2678.00~~	~~15.39~~	2745.00	15.78
Maintenance Worker	~~2622.00~~	~~15.07~~	2689.00	15.45
Security Guard I	~~2412.00~~	~~13.86~~	2479.00	14.25
Security Guard II	~~2460.00~~	~~14.14~~	2527.00	14.52

D) Departments of Children and Family Services, Corrections, Employment Security, Mental Health & Developmental Disabilities - (Counties of DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Maintenance Equipment Operator	2800.00	16.09	2940.00	16.90

E) Department of Transportation - Division of Highways - (Counties of DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Bridge Mechanic	2833.00	16.28	2973.00	17.09
Bridge Tender	2632.00	15.13	2772.00	15.93
Highway Maintenance Lead Worker	2929.00	16.83	3069.00	17.64

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Highway Maintenance Lead Worker (Bridge Crew)	2946.40	16.93	3086.40	17.74
Highway Maintenance Lead Worker (Lead Lead Worker)	2979.00	17.12	3119.00	17.93
Highway Maintainer	2800.00	16.09	2940.00	16.90
Highway Maintainer (Bridge Crew)	2817.40	16.19	2957.40	17.00
Janitor I	2507.00	14.41	2647.00	15.21
Janitor II	2538.00	14.59	2678.00	15.39
Labor Maintenance Lead Worker	2764.00	15.89	2904.00	16.69
Laborer (Maintenance)	2708.00	15.56	2848.00	16.37
Maintenance Worker	2744.00	15.77	2884.00	16.57
Power Shovel Operator (Maintenance)	2850.00	16.38	2990.00	17.18
Power Shovel Operator (Maintenance) (Bridge Crew)	2867.40	16.48	3007.40	17.28
Security Guard I	2534.00	14.56	2674.00	15.37
Security Guard II	2582.00	14.84	2722.00	15.64
Silk Screen Operator	2904.00	16.69	3044.00	17.49

F) Department of Central Management Services - Division of Vehicles - (Counties of DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Janitor I	2507.00	14.41	2647.00	15.21
Janitor II	2538.00	14.59	2678.00	15.39
Maintenance Equipment Operator (all divisions)	2800.00	16.09	2940.00	16.90
Maintenance Worker	2744.00	15.77	2884.00	16.57
Security Guard I	2534.00	14.56	2674.00	15.37
Security Guard II	2582.00	14.84	2722.00	15.64

(Source: Amended at 16 Ill. Reg. _____, effective _____)

Section 310. Appendix A Negotiated Rates of Pay
TABLE F RC-019 (Teamsters Local #25)

A) Department of Transportation - Division of Highways - Downstate - (All Counties Other Than Cook, DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Bridge Mechanic	~~2711.00~~	~~15.58~~	2778.00	15.97

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Bridge Tender	~~2510.00~~	~~14.43~~	2577.00	14.81
Deck Hand	~~2483.00~~	~~14.27~~	2600.00	14.94
Ferry Operator I	~~2708.00~~	~~15.56~~	2775.00	15.95
Ferry Operator II	~~2758.00~~	~~15.85~~	2825.00	16.24
Highway Maintenance Lead Worker	~~2807.00~~	~~16.13~~	2874.00	16.52
Highway Maintenance Lead Worker (Bridge Crew)	~~2824.40~~	~~16.23~~	2891.40	16.62
Highway Maintenance Lead Worker (Lead Lead Worker)	~~2857.00~~	~~16.42~~	2924.00	16.80
Highway Maintainer	~~2678.00~~	~~15.39~~	2745.00	15.78
Highway Maintainer (Bridge Crew)	~~2695.40~~	~~15.49~~	2762.40	15.88
Janitor I (including Office of Administration)	~~2385.00~~	~~13.71~~	2452.00	14.09
Janitor II (including Office of Administration)	~~2416.00~~	~~13.89~~	2483.00	14.27
Laborer (Maintenance)	~~2586.00~~	~~14.86~~	2653.00	15.25
Labor Maintenance Lead Worker	~~2642.00~~	~~15.18~~	2709.00	15.57
Maintenance Worker (including Office of Administration)	~~2622.00~~	~~15.07~~	2689.00	15.45
Power Shovel Operator (Maintenance)	~~2728.00~~	~~15.68~~	2795.00	16.06
Power Shovel Operator (Maintenance) (Bridge Crew)			2812.40	16.60
Security Guard I (including Office of Administration)	~~2412.00~~	~~13.86~~	2479.00	14.25
Security Guard II (including Office of Administration)	~~2460.00~~	~~14.14~~	2527.00	14.52
Silk Screen Operator	~~2782.00~~	~~15.99~~	2849.00	16.37

B) Department of Central Management Services - Division of Vehicles - Downstate - (All Counties Other Than Cook, DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Janitor I	~~2385.00~~	~~13.71~~	2452.00	14.09
Janitor II	~~2416.00~~	~~13.89~~	2483.00	14.27
Maintenance Equipment Operator (all divisions)	~~2678.00~~	~~15.39~~	2745.00	15.78
Maintenance Worker	~~2622.00~~	~~15.07~~	2689.00	15.45
Security Guard I	~~2412.00~~	~~13.86~~	2479.00	14.25
Security Guard II	~~2460.00~~	~~14.14~~	2527.00	14.52

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

C) Department of Mental Health & Developmental Disabilities - Lincoln Developmental Center

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Laborer (Maintenance)	~~2586.00~~	~~14.86~~	2653.00	15.25

D) Departments of Children and Family Services, Corrections, Employment Security, Mental Health & Developmental Disabilities, Public Aid, Rehabilitation Services, State Police, Veterans' Affairs - Downstate - (All Counties Other Than Cook, DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Maintenance Equipment Operator	~~2678.00~~	~~15.39~~	2745.00	15.78

E) Department of Transportation - Division of Highways - Emergency Patrol - District #8

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Highway Maintainer	~~2753.00~~	~~15.82~~	2820.00	16.21
Highway Maintenance Lead Worker	~~2882.00~~	~~16.56~~	2949.00	16.95

F) Department of Conservation

	~~July 1, 1991~~		July 1, 1992	
	~~Mo.~~	~~Hr.~~	Mo.	Hr.
Power Shovel Operator (Maintenance)	~~2728.00~~	~~15.68~~	2795.00	16.06

G) Department of Transportation - Division of Highways - Downstate - (All Counties Other Than Cook, DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Bridge Mechanic	2833.00	16.28	2973.00	17.09
Bridge Tender	2632.00	15.13	2772.00	15.93
Deck Hand	2655.00	15.26	2845.00	16.25
Ferry Operator I	2830.00	16.26	2970.00	17.07
Ferry Operator II	2880.00	16.55	3020.00	17.36
Highway Maintenance Lead Worker	2929.00	16.83	3069.00	17.64
Highway Maintenance Lead Worker (Bridge Crew)	2946.40	16.93	3086.40	17.74

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Highway Maintenance Lead Worker (Lead Lead Worker)	2979.00	17.12	3119.00	17.93
Highway Maintainer	2800.00	16.09	2940.00	16.90
Highway Maintainer (Bridge Crew)	2817.40	16.19	2957.40	17.00
Janitor I (including Office of Administration)	2507.00	14.41	2647.00	15.21
Janitor II (including Office of Administration)	2538.00	14.59	2678.00	15.39
Laborer (Maintenance)	2708.00	15.56	2848.00	16.37
Labor Maintenance Lead Worker	2764.00	15.89	2904.00	16.69
Maintenance Worker (including Office of Administration)	2744.00	15.77	2884.00	16.57
Power Shovel Operator (Maintenance)	2850.00	16.38	2990.00	17.18
Power Shovel Operator (Maintenance) (Bridge Crew)	2867.40	16.48	3007.40	17.28
Security Guard I (including Office of Administration)	2534.00	14.56	2674.00	15.37
Security Guard II (including Office of Administration)	2582.00	14.84	2722.00	15.64
Silk Screen Operator	2904.00	16.69	3044.00	17.49

H) Department of Central Management Services - Division of Vehicles - Downstate - (All Counties Other Than Cook, DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Janitor I	2507.00	14.41	2647.00	15.21
Janitor II	2538.00	14.59	2678.00	15.39
Maintenance Equipment Operator (all divisions)	2800.00	16.09	2940.00	16.90
Maintenance Worker	2744.00	15.77	2884.00	16.57
Security Guard I	2534.00	14.56	2674.00	15.37
Security Guard II	2582.00	14.84	2722.00	15.64

I) Department of Mental Health & Developmental Disabilities - Lincoln Developmental Center

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Laborer (Maintenance)	2708.00	15.56	2848.00	16.37

J) Departments of Children and Family Services, Corrections, Employment Security, Mental Health & Developmental Disabilities, Public Aid, Rehabilitation Services, State Police, Veterans' Affairs - Downstate - (All Counties Other Than Cook, DuPage, Kane, Kankakee, Kendall, Lake, McHenry and Will)

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Maintenance Equipment Operator	2800.00	16.09	2940.00	16.90

K) Department of Transportation - Division of Highways - Emergency Patrol - District #8

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Highway Maintainer	2875.00	16.52	3015.00	17.33
Highway Maintenance Lead Worker	3004.00	17.26	3144.00	18.07

L) Department of Conservation

	Jan. 1, 1993		July 1, 1993	
	Mo.	Hr.	Mo.	Hr.
Power Shovel Operator (Maintenance)	2850.00	16.38	2990.00	17.18

(Source: Amended at 16 Ill. Reg. _____, Effective _____)

Section 310. Appendix A Negotiated Rates of Pay
TABLE O RC-028 (Paraprofessional Human Services Employees, AFSCME)

~~Effective: July 1, 1991~~

	S-T-E-P-S						
	1	2	3	4	5	6	7
~~APPAREL-DRY-GOODS-SPES-III~~	~~1617~~	~~1688~~	~~1752~~	~~1819~~	~~1884~~	~~1951~~	~~2060~~
~~ASSISTANT-REIMBURSEMENT-OFFICER~~	~~1408~~	~~1457~~	~~1507~~	~~1559~~	~~1610~~	~~1663~~	~~1752~~
~~CHILD-DEVELOPMENT-AIDE-III~~	~~1512~~	~~1569~~	~~1630~~	~~1688~~	~~1751~~	~~1812~~	~~1905~~
~~CLINICAL-LABORATORY-ASSOCIATE~~	~~1408~~	~~1457~~	~~1507~~	~~1559~~	~~1610~~	~~1663~~	~~1752~~
~~CLINICAL-LABORATORY-TECHN-I~~	~~1571~~	~~1638~~	~~1698~~	~~1763~~	~~1825~~	~~1891~~	~~1995~~
~~CLINICAL-LABORATORY-TECHN-II~~	~~1717~~	~~1789~~	~~1858~~	~~1934~~	~~2005~~	~~2080~~	~~2197~~
~~COMPLIANCE-OFFICER~~	~~1791~~	~~1867~~	~~1947~~	~~2025~~	~~2103~~	~~2183~~	~~2307~~
~~CONSERVATION-RESOURCE-TECH-I~~	~~1571~~	~~1638~~	~~1698~~	~~1763~~	~~1825~~	~~1891~~	~~1995~~
~~CONSERVATION-RESOURCE-TECH-II~~	~~1791~~	~~1867~~	~~1947~~	~~2025~~	~~2103~~	~~2183~~	~~2307~~
~~CONSTRUCTION-SUPERVISOR-I~~	~~1791~~	~~1867~~	~~1947~~	~~2025~~	~~2103~~	~~2183~~	~~2307~~
~~CONSTRUCTION-SUPERVISOR-II~~	~~2060~~	~~2156~~	~~2255~~	~~2348~~	~~2446~~	~~2544~~	~~2695~~

~~CRIME-SCENE-TECHNICIAN~~	~~2278~~	~~2389~~	~~2500~~	~~2613~~	~~2721~~	~~2829~~	~~2997~~
~~CRIME-STUDIES-ASSOCIATE~~	~~1571~~	~~1638~~	~~1698~~	~~1763~~	~~1825~~	~~1891~~	~~1995~~
~~DATA-PROCESSING-ADMINISTRATIVE SPECIALIST~~	~~1878~~	~~1960~~	~~2042~~	~~2133~~	~~2215~~	~~2300~~	~~2433~~
~~DATA-PROCESSING-SPECIALIST~~	~~1717~~	~~1789~~	~~1858~~	~~1934~~	~~2005~~	~~2080~~	~~2197~~
~~DATA-PROCESSING-TECHNICIAN~~	~~1512~~	~~1569~~	~~1630~~	~~1688~~	~~1751~~	~~1812~~	~~1905~~
~~DATA-PROCESSING-TECHNICIAN-TRN~~	~~1362~~	~~1408~~	~~1454~~	~~1502~~	~~1550~~	~~1600~~	~~1682~~
~~DENTAL-ASSISTANT~~	~~1362~~	~~1408~~	~~1454~~	~~1502~~	~~1550~~	~~1600~~	~~1682~~
~~DENTAL-HYGIENIST~~	~~1571~~	~~1638~~	~~1698~~	~~1763~~	~~1825~~	~~1891~~	~~1995~~
~~ELECTROENGEPHALOGRAPH-TECHN~~	~~1457~~	~~1512~~	~~1566~~	~~1625~~	~~1678~~	~~1735~~	~~1827~~
~~ENVIRONMENTAL-EQUIPMENT-OPR-I~~	~~1717~~	~~1789~~	~~1858~~	~~1934~~	~~2005~~	~~2080~~	~~2197~~
~~ENVIRONMENTAL-EQUIPMENT-OPR-II~~	~~1878~~	~~1960~~	~~2042~~	~~2133~~	~~2215~~	~~2300~~	~~2433~~
~~ENVIRONMENTAL-PROTECTION-TECH-I~~	~~1457~~	~~1512~~	~~1566~~	~~1625~~	~~1678~~	~~1735~~	~~1827~~
~~ENVIRONMENTL-PROTECTION-TECH-II~~	~~1571~~	~~1638~~	~~1698~~	~~1763~~	~~1825~~	~~1891~~	~~1995~~
~~HEARING-&-SPEECH-TECHNICIAN-I~~	~~1362~~	~~1408~~	~~1454~~	~~1502~~	~~1550~~	~~1600~~	~~1682~~
~~HEARING-&-SPEECH-TECHNICIAN-II~~	~~1512~~	~~1569~~	~~1630~~	~~1688~~	~~1751~~	~~1812~~	~~1905~~
~~HISTORIC-SITE-INTERPRETER~~	~~1512~~	~~1569~~	~~1630~~	~~1688~~	~~1751~~	~~1812~~	~~1905~~
~~HISTORIC-SITE-LEAD-I~~	~~1791~~	~~1867~~	~~1947~~	~~2025~~	~~2103~~	~~2183~~	~~2307~~
~~HISTORIC-SITE-LEAD-II~~	~~1878~~	~~1960~~	~~2042~~	~~2133~~	~~2215~~	~~2300~~	~~2433~~
~~HOUSEKEEPER-II~~	~~1274~~	~~1315~~	~~1357~~	~~1397~~	~~1436~~	~~1481~~	~~1557~~
~~INHALATION-THERAPIST~~	~~1457~~	~~1512~~	~~1566~~	~~1625~~	~~1678~~	~~1735~~	~~1827~~
~~INTERMITTENT-UNEMPLOYMENT INSURANCE-TECHNICIAN~~	~~8.38~~	~~8.66~~	~~8.95~~	~~9.24~~	~~9.54~~	~~9.85~~	~~10.35~~
~~LABORATORY-ASSISTANT~~	~~1274~~	~~1318~~	~~1360~~	~~1399~~	~~1445~~	~~1486~~	~~1562~~
~~LABORATORY-ASSOCIATE-I~~	~~1571~~	~~1638~~	~~1698~~	~~1763~~	~~1825~~	~~1891~~	~~1995~~
~~LABORATORY-ASSOCIATE-II~~	~~1717~~	~~1789~~	~~1858~~	~~1934~~	~~2005~~	~~2080~~	~~2197~~
~~LEGAL-RESEARCH-ASSISTANT*~~	~~1791~~	~~1867~~	~~1947~~	~~2025~~	~~2103~~	~~2183~~	~~2307~~
~~LICENSED-PRACTICAL-NURSE-I~~	~~1516~~	~~1575~~	~~1635~~	~~1698~~	~~1764~~	~~1832~~	~~1925~~
~~LICENSED-PRACTICAL-NURSE-II~~	~~1590~~	~~1652~~	~~1717~~	~~1783~~	~~1852~~	~~1923~~	~~2020~~
~~MEDICAL-RECORDS-ASSISTANT~~	~~1512~~	~~1569~~	~~1630~~	~~1688~~	~~1751~~	~~1812~~	~~1905~~
~~MEDICAL-RECORDS-TECHNICIAN~~	~~1639~~	~~1708~~	~~1771~~	~~1843~~	~~1911~~	~~1977~~	~~2087~~
~~OFFICE-ADMINISTRATIVE-SPEC~~	~~1717~~	~~1789~~	~~1858~~	~~1934~~	~~2005~~	~~2080~~	~~2197~~
~~OFFICE-SPECIALIST~~	~~1639~~	~~1708~~	~~1771~~	~~1843~~	~~1911~~	~~1977~~	~~2087~~
~~PHARMACIST-LEAD-TECHNICIAN~~	~~1457~~	~~1512~~	~~1566~~	~~1625~~	~~1678~~	~~1735~~	~~1827~~
~~PHARMACIST-TECHNICIAN~~	~~1362~~	~~1408~~	~~1454~~	~~1502~~	~~1550~~	~~1600~~	~~1682~~
~~PUBLIC-AID-ELIGIBILITY-ASST~~	~~1457~~	~~1512~~	~~1566~~	~~1625~~	~~1678~~	~~1735~~	~~1827~~
~~RADIOLOGIC-TECHNOLOGIST~~	~~1639~~	~~1708~~	~~1771~~	~~1843~~	~~1911~~	~~1977~~	~~2087~~
~~RADIOLOGIC-TECHNOLOGIST-PROG COORDINATOR~~	~~1717~~	~~1789~~	~~1858~~	~~1934~~	~~2005~~	~~2080~~	~~2197~~
~~RANGER~~	~~1791~~	~~1867~~	~~1947~~	~~2025~~	~~2103~~	~~2183~~	~~2307~~
~~REHAB-COUNSELOR-AIDE-I~~	~~1512~~	~~1569~~	~~1630~~	~~1688~~	~~1751~~	~~1812~~	~~1905~~
~~REHAB-COUNSELOR-AIDE-II~~	~~1639~~	~~1708~~	~~1771~~	~~1843~~	~~1911~~	~~1977~~	~~2087~~
~~SENIOR-RANGER~~	~~1878~~	~~1960~~	~~2042~~	~~2133~~	~~2215~~	~~2300~~	~~2433~~
~~SITE-TECHNICIAN-I~~	~~1571~~	~~1638~~	~~1698~~	~~1763~~	~~1825~~	~~1891~~	~~1995~~
~~SITE-TECHNICIAN-II~~	~~1717~~	~~1789~~	~~1858~~	~~1934~~	~~2005~~	~~2080~~	~~2197~~
~~SOCIAL-SERV-COMMUNITY-PLANNER~~	~~1639~~	~~1708~~	~~1771~~	~~1843~~	~~1911~~	~~1977~~	~~2087~~
~~STATISTICAL-RESEARCH-TECHNICIAN~~	~~1639~~	~~1708~~	~~1771~~	~~1843~~	~~1911~~	~~1977~~	~~2087~~

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

~~UNEMP-INSURANCE-CLAIMS-TECH-I 1362--1408--1454--1502--1550--1600--1682~~
~~UNEMP-INSURANCE-CLAIMS-TECH-II 1457--1512--1566--1625--1678--1735--1827~~
~~UNEMP-INSURANCE-CLAIMS-TECH-III 1512--1569--1630--1688--1751--1812--1905~~
~~VETERANS-SERVICE-OFFICER 1717--1789--1858--1934--2005--2080--2197~~
~~VOCATIONAL-INSTRUCTOR 1717--1789--1858--1934--2005--2080--2197~~

~~*DEPT.-OF-EMPLOYMENT-SECURITY-DESIGNATED-POSITIONS-ONLY~~

~~NOTE:--Effective-January-1,-1992,-employees-who-have-15-years-of-service and-have-3-or-more-years-of-creditable-service-on-Step-7-in-the same-pay-grade-shall-receive-an-additional-$25.00-monthly.~~

Effective: July 1, 1992

	STEPS						
	1	2	3	4	5	6	7
APPAREL-DRY GOODS SPECIALIST III	1657	1730	1796	1864	1931	2000	2112
ASSISTANT REIMBURSEMENT OFFICER	1443	1493	1545	1598	1650	1705	1796
CHILD DEVELOPMENT AIDE III	1610	1679	1740	1807	1871	1938	2045
CLINICAL LABORATORY ASSOCIATE	1443	1493	1545	1598	1650	1705	1796
CLINICAL LABORATORY TECH I	1610	1679	1740	1807	1871	1938	2045
CLINICAL LABORATORY TECH II	1760	1834	1904	1982	2055	2132	2252
COMPLIANCE OFFICER	1836	1914	1996	2076	2156	2238	2365
CONSERVATION RESOURCE TECH I	1610	1679	1740	1807	1871	1938	2045
CONSERVATION RESOURCE TECH II	1836	1914	1996	2076	2156	2238	2365
CONSTRUCTION SUPERVISOR I	1836	1914	1996	2076	2156	2238	2365
CONSTRUCTION SUPERVISOR II	2112	2210	2311	2407	2507	2608	2762
CRIME SCENE TECHNICIAN	2335	2449	2563	2678	2789	2900	3072
CRIME STUDIES ASSOCIATE	1610	1679	1740	1807	1871	1938	2045
DATA PROCESSING ADMINISTRATIVE SPECIALIST	1925	2009	2093	2186	2270	2358	2494
DATA PROCESSING SPECIALIST	1760	1834	1904	1982	2055	2132	2252
DATA PROCESSING TECHNICIAN	1550	1608	1671	1730	1795	1857	1953
DATA PROCESSING TECHNICIAN TRN	1396	1443	1490	1540	1589	1640	1724
DENTAL ASSISTANT	1396	1443	1490	1540	1589	1640	1724
DENTAL HYGIENIST	1610	1679	1740	1807	1871	1938	2045
ELECTROENCEPHALOGRAPH TECHNICIAN	1493	1550	1605	1666	1720	1778	1873
ENVIRONMENTAL EQUIPMENT OPR I	1760	1834	1904	1982	2055	2132	2252
ENVIRONMENTAL EQUIPMENT OPR II	1925	2009	2093	2186	2270	2358	2494
ENVIRONMENTAL PROTECTION TECH I	1493	1550	1605	1666	1720	1778	1873
ENVIRONMENTAL PROTECTION TECH II	1610	1679	1740	1807	1871	1938	2045
HEARING & SPEECH TECHNICIAN I	1396	1443	1490	1540	1589	1640	1724
HEARING & SPEECH TECHNICIAN II	1550	1608	1671	1730	1795	1857	1953
HISTORIC SITE INTERPRETER	1550	1608	1671	1730	1795	1857	1953
HISTORIC SITE LEAD I	1836	1914	1996	2076	2156	2238	2365
HISTORIC SITE LEAD II	1925	2009	2093	2186	2270	2358	2494
HOUSEKEEPER II	1306	1348	1391	1432	1472	1518	1596

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

INHALATION THERAPIST	1493	1550	1605	1666	1720	1778	1873
INTERMITTENT UNEMPLOYMENT INSURANCE TECHNICIAN	8.59	8.88	9.17	9.48	9.78	10.09	10.61
LABORATORY ASSISTANT	1306	1351	1394	1434	1481	1523	1601
LABORATORY ASSOCIATE I	1610	1679	1740	1807	1871	1938	2045
LABORATORY ASSOCIATE II	1760	1834	1904	1982	2055	2132	2252
LEGAL RESEARCH ASSISTANT*	1836	1914	1996	2076	2156	2238	2365
LICENSED PRACTICAL NURSE I	1554	1614	1676	1740	1808	1878	1973
LICENSED PRACTICAL NURSE II	1630	1693	1760	1828	1898	1971	2071
MEDICAL RECORDS ASSISTANT	1550	1608	1671	1730	1795	1857	1953
MEDICAL RECORDS TECHNICIAN	1680	1751	1815	1889	1959	2026	2139
OFFICE ADMINISTRATIVE SPECIALIST	1760	1834	1904	1982	2055	2132	2252
OFFICE SPECIALIST	1680	1751	1815	1889	1959	2026	2139
PHARMACIST LEAD TECHNICIAN	1493	1550	1605	1666	1720	1778	1873
PHARMACIST TECHNICIAN	1396	1443	1490	1540	1589	1640	1724
PUBLIC AID ELIGIBILITY ASSISTANT	1493	1550	1605	1666	1720	1778	1873
RADIOLOGIC TECHNOLOGIST	1680	1751	1815	1889	1959	2026	2139
RADIOLOGIC TECHNOLOGIST PROGRAM COORDINATOR	1760	1834	1904	1982	2055	2132	2252
RANGER	1836	1914	1996	2076	2156	2238	2365
REHABILITATION COUNSELOR AIDE I	1550	1608	1671	1730	1795	1857	1953
REHABILITATION COUNSELOR AIDE II	1680	1751	1815	1889	1959	2026	2139
SENIOR RANGER	1925	2009	2093	2186	2270	2358	2494
SITE TECHNICIAN I	1610	1679	1740	1807	1871	1938	2045
SITE TECHNICIAN II	1760	1834	1904	1982	2055	2132	2252
SOCIAL SERVICE COMMUNITY PLANNER	1680	1751	1815	1889	1959	2026	2139
STATISTICAL RESEARCH TECHNICIAN	1680	1751	1815	1889	1959	2026	2139
~~UNEMPLOYMENT-INSURANCE-CLAIMS TECHNICIAN-I~~	~~1396~~	~~1443~~	~~1490~~	~~1540~~	~~1589~~	~~1640~~	~~1724~~
~~UNEMPLOYMENT-INSURANCE-CLAIMS TECHNICIAN-II~~	~~1493~~	~~1550~~	~~1605~~	~~1666~~	~~1720~~	~~1778~~	~~1873~~
~~UNEMPLOYMENT-INSURANCE-CLAIMS TECHNICIAN-III~~	~~1550~~	~~1608~~	~~1671~~	~~1730~~	~~1795~~	~~1857~~	~~1953~~
VETERANS SERVICE OFFICER	1760	1834	1904	1982	2055	2132	2252
VOCATIONAL INSTRUCTOR	1760	1834	1904	1982	2055	2132	2252

*DEPT. OF EMPLOYMENT SECURITY DESIGNATED POSITIONS ONLY

Effective: January 1, 1993

	STEPS						
	1	2	3	4	5	6	7
APPAREL-DRY GOODS SPECIALIST III	1690	1765	1832	1901	1970	2040	2154
ASSISTANT REIMBURSEMENT OFFICER	1472	1523	1576	1630	1683	1739	1832
CHILD DEVELOPMENT AIDE III	1642	1713	1775	1843	1908	1977	2086
CLINICAL LABORATORY ASSOCIATE	1472	1523	1576	1630	1683	1739	1832

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

CLINICAL LABORATORY TECH I	1642	1713	1775	1843	1908	1977	2086
CLINICAL LABORATORY TECH II	1795	1871	1942	2022	2096	2175	2297
COMPLIANCE OFFICER	1873	1952	2036	2118	2199	2283	2412
CONSERVATION RESOURCE TECH I	1642	1713	1775	1843	1908	1977	2086
CONSERVATION RESOURCE TECH II	1873	1952	2036	2118	2199	2283	2412
CONSTRUCTION SUPERVISOR I	1873	1952	2036	2118	2199	2283	2412
CONSTRUCTION SUPERVISOR II	2154	2254	2357	2455	2557	2660	2817
CRIME SCENE TECHNICIAN	2382	2498	2614	2732	2845	2958	3133
CRIME STUDIES ASSOCIATE	1642	1713	1775	1843	1908	1977	2086
DATA PROCESSING ADMINISTRATIVE SPECIALIST	1964	2049	2135	2230	2315	2405	2544
DATA PROCESSING SPECIALIST	1795	1871	1942	2022	2096	2175	2297
DATA PROCESSING TECHNICIAN	1581	1640	1704	1765	1831	1894	1992
DATA PROCESSING TECHNICIAN TRN	1424	1472	1520	1571	1621	1673	1758
DENTAL ASSISTANT	1424	1472	1520	1571	1621	1673	1758
DENTAL HYGIENIST	1642	1713	1775	1843	1908	1977	2086
ELECTROENCEPHALOGRAPH TECHNICIAN	1523	1581	1637	1699	1754	1814	1910
ENVIRONMENTAL EQUIPMENT OPR I	1795	1871	1942	2022	2096	2175	2297
ENVIRONMENTAL EQUIPMENT OPR II	1964	2049	2135	2230	2315	2405	2544
ENVIRONMENTAL PROTECTION TECH I	1523	1581	1637	1699	1754	1814	1910
ENVIRONMENTAL PROTECTION TECH II	1642	1713	1775	1843	1908	1977	2086
HEARING & SPEECH TECHNICIAN I	1424	1472	1520	1571	1621	1673	1758
HEARING & SPEECH TECHNICIAN II	1581	1640	1704	1765	1831	1894	1992
HISTORIC SITE INTERPRETER	1581	1640	1704	1765	1831	1894	1992
HISTORIC SITE LEAD I	1873	1952	2036	2118	2199	2283	2412
HISTORIC SITE LEAD II	1964	2049	2135	2230	2315	2405	2544
HOUSEKEEPER II	1332	1375	1419	1461	1501	1548	1628
INHALATION THERAPIST	1523	1581	1637	1699	1754	1814	1910
INTERMITTENT UNEMPLOYMENT INSURANCE TECHNICIAN	8.76	9.06	9.35	9.67	9.98	10.30	10.82
LABORATORY ASSISTANT	1332	1378	1422	1463	1511	1553	1633
LABORATORY ASSOCIATE I	1642	1713	1775	1843	1908	1977	2086
LABORATORY ASSOCIATE II	1795	1871	1942	2022	2096	2175	2297
LEGAL RESEARCH ASSISTANT*	1873	1952	2036	2118	2199	2283	2412
LICENSED PRACTICAL NURSE I	1585	1646	1710	1775	1844	1916	2012
LICENSED PRACTICAL NURSE II	1663	1727	1795	1865	1936	2010	2112
MEDICAL RECORDS ASSISTANT	1581	1640	1704	1765	1831	1894	1992
MEDICAL RECORDS TECHNICIAN	1714	1786	1851	1927	1998	2067	2182
OFFICE ADMINISTRATIVE SPECIALIST	1795	1871	1942	2022	2096	2175	2297
OFFICE SPECIALIST	1714	1786	1851	1927	1998	2067	2182
PHARMACIST LEAD TECHNICIAN	1523	1581	1637	1699	1754	1814	1910
PHARMACIST TECHNICIAN	1424	1472	1520	1571	1621	1673	1758
PUBLIC AID ELIGIBILITY ASSISTANT	1523	1581	1637	1699	1754	1814	1910
RADIOLOGIC TECHNOLOGIST	1714	1786	1851	1927	1998	2067	2182
RADIOLOGIC TECHNOLOGIST PROGRAM COORDINATOR	1795	1871	1942	2022	2096	2175	2297
RANGER	1873	1952	2036	2118	2199	2283	2412

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

REHABILITATION COUNSELOR AIDE I	1581	1640	1704	1765	1831	1894	1992
REHABILITATION COUNSELOR AIDE II	1714	1786	1851	1927	1998	2067	2182
SENIOR RANGER	1964	2049	2135	2230	2315	2405	2544
SITE TECHNICIAN I	1642	1713	1775	1843	1908	1977	2086
SITE TECHNICIAN II	1795	1871	1942	2022	2096	2175	2297
SOCIAL SERVICE COMMUNITY PLANNER	1714	1786	1851	1927	1998	2067	2182
STATISTICAL RESEARCH TECHNICIAN	1714	1786	1851	1927	1998	2067	2182
~~UNEMPLOYMENT INSURANCE CLAIMS TECHNICIAN I~~	~~1424~~	~~1472~~	~~1520~~	~~1571~~	~~1621~~	~~1673~~	~~1758~~
~~UNEMPLOYMENT INSURANCE CLAIMS TECHNICIAN II~~	~~1523~~	~~1581~~	~~1637~~	~~1699~~	~~1754~~	~~1814~~	~~1910~~
~~UNEMPLOYMENT INSURANCE CLAIMS TECHNICIAN III~~	~~1581~~	~~1640~~	~~1704~~	~~1765~~	~~1831~~	~~1894~~	~~1992~~
VETERANS SERVICE OFFICER	1795	1871	1942	2022	2096	2175	2297
VOCATIONAL INSTRUCTOR	1795	1871	1942	2022	2096	2175	2297

*DEPT. OF EMPLOYMENT SECURITY DESIGNATED POSITIONS ONLY

Effective: July 1, 1993

	STEPS						
	1	2	3	4	5	6	7
APPAREL-DRY GOODS SPECIALIST III	1775	1853	1924	1996	2069	2142	2262
ASSISTANT REIMBURSEMENT OFFICER	1546	1599	1655	1712	1767	1826	1924
CHILD DEVELOPMENT AIDE III	1724	1799	1864	1935	2003	2076	2190
CLINICAL LABORATORY ASSOCIATE	1546	1599	1655	1712	1767	1826	1924
CLINICAL LABORATORY TECH I	1724	1799	1864	1935	2003	2076	2190
CLINICAL LABORATORY TECH II	1885	1965	2039	2123	2201	2284	2412
COMPLIANCE OFFICER	1967	2050	2138	2224	2309	2397	2533
CONSERVATION RESOURCE TECH I	1724	1799	1864	1935	2003	2076	2190
CONSERVATION RESOURCE TECH II	1967	2050	2138	2224	2309	2397	2533
CONSTRUCTION SUPERVISOR I	1967	2050	2138	2224	2309	2397	2533
CONSTRUCTION SUPERVISOR II	2262	2367	2475	2578	2685	2793	2958
CRIME SCENE TECHNICIAN	2501	2623	2745	2869	2987	3106	3290
CRIME STUDIES ASSOCIATE	1724	1799	1864	1935	2003	2076	2190
DATA PROCESSING ADMINISTRATIVE SPECIALIST	2062	2151	2242	2342	2431	2525	2671
DATA PROCESSING SPECIALIST	1885	1965	2039	2123	2201	2284	2412
DATA PROCESSING TECHNICIAN	1660	1722	1789	1853	1923	1989	2092
DATA PROCESSING TECHNICIAN TRN	1495	1546	1596	1650	1702	1757	1846
DENTAL ASSISTANT	1495	1546	1596	1650	1702	1757	1846
DENTAL HYGIENIST	1724	1799	1864	1935	2003	2076	2190
ELECTROENCEPHALOGRAPH TECHNICIAN	1599	1660	1719	1784	1842	1905	2006
ENVIRONMENTAL EQUIPMENT OPR I	1885	1965	2039	2123	2201	2284	2412
ENVIRONMENTAL EQUIPMENT OPR II	2062	2151	2242	2342	2431	2525	2671
ENVIRONMENTAL PROTECTION TECH I	1599	1660	1719	1784	1842	1905	2006
ENVIRONMENTAL PROTECTION TECH II	1724	1799	1864	1935	2003	2076	2190

HEARING & SPEECH TECHNICIAN I	1495	1546	1596	1650	1702	1757	1846
HEARING & SPEECH TECHNICIAN II	1660	1722	1789	1853	1923	1989	2092
HISTORIC SITE INTERPRETER	1660	1722	1789	1853	1923	1989	2092
HISTORIC SITE LEAD I	1967	2050	2138	2224	2309	2397	2533
HISTORIC SITE LEAD II	2062	2151	2242	2342	2431	2525	2671
HOUSEKEEPER II	1399	1444	1490	1534	1576	1625	1709
INHALATION THERAPIST	1599	1660	1719	1784	1842	1905	2006
INTERMITTENT UNEMPLOYMENT INSURANCE TECHNICIAN	9.20	9.51	9.82	10.15	10.47	10.81	11.36
LABORATORY ASSISTANT	1399	1447	1493	1536	1587	1631	1715
LABORATORY ASSOCIATE I	1724	1799	1864	1935	2003	2076	2190
LABORATORY ASSOCIATE II	1885	1965	2039	2123	2201	2284	2412
LEGAL RESEARCH ASSISTANT*	1967	2050	2138	2224	2309	2397	2533
LICENSED PRACTICAL NURSE I	1664	1728	1796	1864	1936	2012	2113
LICENSED PRACTICAL NURSE II	1746	1813	1885	1958	2033	2111	2218
MEDICAL RECORDS ASSISTANT	1660	1722	1789	1853	1923	1989	2092
MEDICAL RECORDS TECHNICIAN	1800	1875	1944	2023	2098	2170	2291
OFFICE ADMINISTRATIVE SPECIALIST	1885	1965	2039	2123	2201	2284	2412
OFFICE SPECIALIST	1800	1875	1944	2023	2098	2170	2291
PHARMACIST LEAD TECHNICIAN	1599	1660	1719	1784	1842	1905	2006
PHARMACIST TECHNICIAN	1495	1546	1596	1650	1702	1757	1846
PUBLIC AID ELIGIBILITY ASSISTANT	1599	1660	1719	1784	1842	1905	2006
RADIOLOGIC TECHNOLOGIST	1800	1875	1944	2023	2098	2170	2291
RADIOLOGIC TECHNOLOGIST PROGRAM COORDINATOR	1885	1965	2039	2123	2201	2284	2412
RANGER	1967	2050	2138	2224	2309	2397	2533
REHABILITATION COUNSELOR AIDE I	1660	1722	1789	1853	1923	1989	2092
REHABILITATION COUNSELOR AIDE II	1800	1875	1944	2023	2098	2170	2291
SENIOR RANGER	2062	2151	2242	2342	2431	2525	2671
SITE TECHNICIAN I	1724	1799	1864	1935	2003	2076	2190
SITE TECHNICIAN II	1885	1965	2039	2123	2201	2284	2412
SOCIAL SERVICE COMMUNITY PLANNER	1800	1875	1944	2023	2098	2170	2291
STATISTICAL RESEARCH TECHNICIAN	1800	1875	1944	2023	2098	2170	2291
~~UNEMPLOYMENT INSURANCE CLAIMS TECHNICIAN I~~	~~1495~~	~~1546~~	~~1596~~	~~1650~~	~~1702~~	~~1757~~	~~1846~~
~~UNEMPLOYMENT INSURANCE CLAIMS TECHNICIAN II~~	~~1599~~	~~1660~~	~~1719~~	~~1784~~	~~1842~~	~~1905~~	~~2006~~
~~UNEMPLOYMENT INSURANCE CLAIMS TECHNICIAN III~~	~~1660~~	~~1722~~	~~1789~~	~~1853~~	~~1923~~	~~1989~~	~~2092~~
VETERANS SERVICE OFFICER	1885	1965	2039	2123	2201	2284	2412
VOCATIONAL INSTRUCTOR	1885	1965	2039	2123	2201	2284	2412

*DEPT. OF EMPLOYMENT SECURITY DESIGNATED POSITIONS ONLY

(Source: Amended at 16 Ill. Reg. _____, effective _____)

Section 310. Appendix A Negotiated Rates of Pay
TABLE P RC-029 (Paraprofessional Investigatory and Law Enforcement Employees, ISEA)

~~Effective July 1, 1991~~

	S-T-E-P-S ~~1 2 3 4 5 6 7~~
~~AGRICULTURAL PRODUCTS PROMOTER~~	~~1717 1789 1858 1934 2005 2080 2197~~
~~ANIMAL & ANIMAL PRODUCTS INVESTIGATOR~~	~~1878 1960 2042 2133 2215 2300 2433~~
~~ANIMAL HEALTH INSPECTOR~~	~~1717 1789 1858 1934 2005 2080 2197~~
~~ANIMAL WELFARE INSPECTOR~~	~~1717 1789 1858 1934 2005 2080 2197~~
~~APIARY INSPECTOR~~	~~1274 1318 1360 1399 1445 1486 1562~~
~~ARSON INVESTIGATOR I~~	~~2060 2156 2255 2348 2446 2544 2695~~
~~ARSON INVESTIGATOR II~~	~~2278 2389 2500 2613 2721 2829 2997~~
~~BREATH ALCOHOL ANALYSIS TECHNICIAN~~	~~1961 2053 2141 2229 2321 2408 2551~~
~~COMMERCE COMM POLICE OFFICER I~~	~~2060 2156 2255 2348 2446 2544 2695~~
~~COMMERCE COMM POLICE OFFICER II~~	~~2278 2389 2500 2613 2721 2829 2997~~
~~COMMODITIES INSPECTOR~~	~~1571 1638 1698 1763 1825 1891 1995~~
~~DANGEROUS DRUGS COMPLIANCE OFFICER I~~	~~1791 1867 1947 2025 2103 2183 2307~~
~~DANGEROUS DRUGS COMPLIANCE OFFICER II~~	~~1961 2053 2141 2229 2321 2408 2551~~
~~DANGEROUS DRUGS COMPLIANCE OFFICER III~~	~~2060 2156 2255 2348 2446 2544 2695~~
~~DRUG COMPLIANCE INVESTIGATOR~~	~~2833 2980 3127 3273 3424 3568 3789~~
~~ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR I~~	~~1571 1638 1698 1763 1825 1891 1995~~
~~ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR II~~	~~1717 1789 1858 1934 2005 2080 2197~~
~~EXPLOSIVES INSPECTOR I~~	~~1878 1960 2042 2133 2215 2300 2433~~
~~EXPLOSIVES INSPECTOR II~~	~~2162 2265 2370 2469 2570 2674 2834~~
~~FINGERPRINT TECHNICIAN I~~	~~1457 1512 1566 1625 1678 1735 1827~~
~~FINGERPRINT TECHNICIAN II~~	~~1571 1638 1698 1763 1825 1891 1995~~
~~FINGERPRINT TECHNICIAN III~~	~~1717 1789 1858 1934 2005 2080 2197~~
~~FIRE PREVENTION INSPECTOR I~~	~~1791 1867 1947 2025 2103 2183 2307~~
~~FIRE PREVENTION INSPECTOR II~~	~~1961 2053 2141 2229 2321 2408 2551~~
~~GUARD I~~	~~1318 1362 1407 1452 1495 1539 1616~~
~~GUARD II~~	~~1457 1512 1566 1625 1678 1735 1827~~
~~GUARD III~~	~~1639 1708 1771 1843 1911 1977 2087~~
~~LICENSING ASSISTANT~~	~~1408 1457 1507 1559 1610 1663 1752~~
~~LICENSING INVESTIGATOR I~~	~~1639 1708 1771 1843 1911 1977 2087~~
~~LICENSING INVESTIGATOR II~~	~~1878 1960 2042 2133 2215 2300 2433~~
~~LICENSING INVESTIGATOR III~~	~~1961 2053 2141 2229 2321 2408 2551~~
~~LICENSING INVESTIGATOR IV~~	~~2162 2265 2370 2469 2570 2674 2834~~

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

~~LIQUOR CONTROL SPECIAL AGENT I~~	~~1791--1867--1947--2025--2103--2183--2307~~
~~MOTORIST ASSISTANCE SPECIALIST~~	~~1408--1457--1507--1559--1610--1663--1752~~
~~PERSONAL PROPERTY WAREHOUSE EXAMINER~~	~~1639--1708--1771--1843--1911--1977--2087~~
~~PLANT & PESTICIDE SPECIALIST I~~	~~1961--2053--2141--2229--2321--2408--2551~~
~~PLANT & PESTICIDE SPECIALIST II~~	~~2162--2265--2370--2469--2570--2674--2834~~
~~PLUMBING INSPECTOR~~	~~2278--2389--2500--2613--2721--2829--2997~~
~~POLICE OFFICER I~~	~~2060--2156--2255--2348--2446--2544--2695~~
~~POLICE OFFICER II~~	~~2278--2389--2500--2613--2721--2829--2997~~
~~POLYGRAPH EXAMINER I~~	~~2278--2389--2500--2613--2721--2829--2997~~
~~POLYGRAPH EXAMINER II~~	~~2538--2665--2790--2923--3049--3174--3369~~
~~POLYGRAPH EXAMINER III~~	~~2833--2980--3127--3273--3424--3568--3789~~
~~PRODUCTS & STANDARDS INSPECTOR~~	~~1717--1789--1858--1934--2005--2080--2197~~
~~SECURITY OFFICER~~	~~1717--1789--1858--1934--2005--2080--2197~~
~~SECURITY OFFICER SERGEANT~~	~~1791--1867--1947--2025--2103--2183--2307~~
~~SEED ANALYST I~~	~~1639--1708--1771--1843--1911--1977--2087~~
~~SEED ANALYST II~~	~~1717--1789--1858--1934--2005--2080--2197~~
~~SITE SECURITY OFFICER~~	~~1457--1512--1566--1625--1678--1735--1827~~
~~TRUCK WEIGHING INSPECTOR~~	~~1512--1569--1630--1688--1751--1812--1905~~
~~VEHICLE EMISSIONS COMPLIANCE OFFICER~~	~~1717--1789--1858--1934--2005--2080--2197~~
~~VEHICLE TESTING COMPLIANCE OFFICER~~	~~1961--2053--2141--2229--2321--2408--2551~~
~~VEHICLE TESTING STATION INSP~~	~~1717--1789--1858--1934--2005--2080--2197~~
~~VITAL RECORDS QUALITY CONTROL INSPECTOR~~	~~1717--1789--1858--1934--2005--2080--2197~~
~~WAREHOUSE CLAIMS SPECIALIST~~	~~2402--2524--2643--2764--2881--3002--3184~~
~~WAREHOUSE EXAMINER I~~	~~1717--1789--1858--1934--2005--2080--2197~~
~~WAREHOUSE EXAMINER II~~	~~1961--2053--2141--2229--2321--2408--2551~~
~~WAREHOUSE EXAMINER III~~	~~2162--2265--2370--2469--2570--2674--2834~~
~~WELL INSPECTOR I~~	~~1878--1960--2042--2133--2215--2300--2433~~
~~WELL INSPECTOR II~~	~~2162--2265--2370--2469--2570--2674--2834~~

~~Effective August 1, 1991~~

	S-T-E-P-S 1 2 3 4 5 6 7
~~FIRE PREVENTION INSPECTOR I~~	~~1878--1960--2042--2133--2215--2300--2433~~
~~FIRE PREVENTION INSPECTOR II~~	~~2162--2265--2370--2469--2570--2674--2834~~

~~NOTE: Effective January 1, 1992, employees who have 15 years of service and have 3 or more years of creditable service on Step 7 in the same pay grade shall receive an additional $25.00 monthly.~~

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Effective: July 1, 1992

	STEPS 1	2	3	4	5	6	7
AGRICULTURAL PRODUCTS PROMOTER	1760	1834	1904	1982	2055	2132	2252
ANIMAL & ANIMAL PRODUCTS INVESTIGATOR	1925	2009	2093	2186	2270	2358	2494
ANIMAL HEALTH INSPECTOR	1760	1834	1904	1982	2055	2132	2252
ANIMAL WELFARE INSPECTOR	1760	1834	1904	1982	2055	2132	2252
APIARY INSPECTOR	1306	1351	1394	1434	1481	1523	1601
ARSON INVESTIGATOR I	2112	2210	2311	2407	2507	2608	2762
ARSON INVESTIGATOR II	2335	2449	2563	2678	2789	2900	3072
BREATH ALCOHOL ANALYSIS TECHNICIAN	2010	2104	2195	2285	2379	2468	2615
COMMERCE COMMISSION POLICE OFR I	2112	2210	2311	2407	2507	2608	2762
COMMERCE COMMISSION POLICE OFR II	2335	2449	2563	2678	2789	2900	3072
COMMODITIES INSPECTOR	1610	1679	1740	1807	1871	1938	2045
DANGEROUS DRUGS COMPLIANCE OFFICER I	1836	1914	1996	2076	2156	2238	2365
DANGEROUS DRUGS COMPLIANCE OFFICER II	2010	2104	2195	2285	2379	2468	2615
DANGEROUS DRUGS COMPLIANCE OFFICER III	2112	2210	2311	2407	2507	2608	2762
DRUG COMPLIANCE INVESTIGATOR	2904	3055	3205	3355	3510	3657	3884
ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR I	1610	1679	1740	1807	1871	1938	2045
ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR II	1760	1834	1904	1982	2055	2132	2252
EXPLOSIVES INSPECTOR I	1925	2009	2093	2186	2270	2358	2494
EXPLOSIVES INSPECTOR II	2216	2322	2429	2531	2634	2741	2905
FINGERPRINT TECHNICIAN I	1493	1550	1605	1666	1720	1778	1873
FINGERPRINT TECHNICIAN II	1610	1679	1740	1807	1871	1938	2045
FINGERPRINT TECHNICIAN III	1760	1834	1904	1982	2055	2132	2252
FIRE PREVENTION INSPECTOR I	~~1836--1914--1996--2076--2156--2238--2365~~ 2010	2104	2195	2285	2379	2468	2615
FIRE PREVENTION INSPECTOR II	~~2010--2104--2195--2285--2379--2468--2615~~ 2335	2449	2563	2678	2789	2900	3072
GUARD I	~~1351~~	~~1396~~	~~1442~~	~~1488~~	~~1532~~	~~1577~~	~~1656~~
GUARD II	1493	1550	1605	1666	1720	1778	1873
GUARD III	1680	1751	1815	1889	1959	2026	2139
LICENSING ASSISTANT	1443	1493	1545	1598	1650	1705	1796
LICENSING INVESTIGATOR I	1680	1751	1815	1889	1959	2026	2139
LICENSING INVESTIGATOR II	1925	2009	2093	2186	2270	2358	2494
LICENSING INVESTIGATOR III	2010	2104	2195	2285	2379	2468	2615
LICENSING INVESTIGATOR IV	2216	2322	2429	2531	2634	2741	2905
LIQUOR CONTROL SPECIAL AGENT I	1836	1914	1996	2076	2156	2238	2365
MOTORIST ASSISTANCE SPECIALIST	1443	1493	1545	1598	1650	1705	1796
PERSONAL PROPERTY WAREHOUSE EXAMINER	1680	1751	1815	1889	1959	2026	2139

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

PLANT & PESTICIDE SPECIALIST I	2010	2104	2195	2285	2379	2468	2615
PLANT & PESTICIDE SPECIALIST II	2216	2322	2429	2531	2634	2741	2905
PLUMBING INSPECTOR	2335	2449	2563	2678	2789	2900	3072
POLICE OFFICER I	2112	2210	2311	2407	2507	2608	2762
POLICE OFFICER II	2335	2449	2563	2678	2789	2900	3072
POLYGRAPH EXAMINER I	2335	2449	2563	2678	2789	2900	3072
POLYGRAPH EXAMINER II	2601	2732	2860	2996	3125	3253	3453
POLYGRAPH EXAMINER III	2904	3055	3205	3355	3510	3657	3884
PRODUCTS & STANDARDS INSPECTOR	1760	1834	1904	1982	2055	2132	2252
SECURITY OFFICER	1760	1834	1904	1982	2055	2132	2252
SECURITY OFFICER SERGEANT	1836	1914	1996	2076	2156	2238	2365
SEED ANALYST I	1680	1751	1815	1889	1959	2026	2139
SEED ANALYST II	1760	1834	1904	1982	2055	2132	2252
SITE SECURITY OFFICER	1493	1550	1605	1666	1720	1778	1873
TRUCK WEIGHING INSPECTOR	1550	1608	1671	1730	1795	1857	1953
VEHICLE EMISSIONS COMPLIANCE INSPECTOR	1760	1834	1904	1982	2055	2132	2252
VEHICLE TESTING COMPLIANCE OFFICER	2010	2104	2195	2285	2379	2468	2615
VEHICLE TESTING STATION INSPECTOR	1760	1834	1904	1982	2055	2132	2252
VITAL RECORDS QUALITY CONTROL INSPECTOR	1760	1834	1904	1982	2055	2132	2252
WAREHOUSE CLAIMS SPECIALIST	2462	2587	2709	2833	2953	3077	3264
WAREHOUSE EXAMINER I	1760	1834	1904	1982	2055	2132	2252
WAREHOUSE EXAMINER II	2010	2104	2195	2285	2379	2468	2615
WAREHOUSE EXAMINER III	2216	2322	2429	2531	2634	2741	2905
WELL INSPECTOR I	1925	2009	2093	2186	2270	2358	2494
WELL INSPECTOR II	2216	2322	2429	2531	2634	2741	2905

Effective: January 1, 1993

	STEPS						
	1	2	3	4	5	6	7
AGRICULTURAL PRODUCTS PROMOTER	1795	1871	1942	2022	2096	2175	2297
ANIMAL & ANIMAL PRODUCTS INVESTIGATOR	1964	2049	2135	2230	2315	2405	2544
ANIMAL HEALTH INSPECTOR	1795	1871	1942	2022	2096	2175	2297
ANIMAL WELFARE INSPECTOR	1795	1871	1942	2022	2096	2175	2297
APIARY INSPECTOR	1332	1378	1422	1463	1511	1553	1633
ARSON INVESTIGATOR I	2154	2254	2357	2455	2557	2660	2817
ARSON INVESTIGATOR II	2382	2498	2614	2732	2845	2958	3133
BREATH ALCOHOL ANALYSIS TECHNICIAN	2050	2146	2239	2331	2427	2517	2667
COMMERCE COMMISSION POLICE OFR I	2154	2254	2357	2455	2557	2660	2817
COMMERCE COMMISSION POLICE OFR II	2382	2498	2614	2732	2845	2958	3133
COMMODITIES INSPECTOR	1642	1713	1775	1843	1908	1977	2086

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~~CONSERVATION POLICE OFFICER I*~~	~~2260~~	~~2368~~	~~2478~~	~~2582~~	~~2687~~	~~2796~~	~~2963~~
~~CONSERVATION POLICE OFFICER II*~~	~~2382~~	~~2498~~	~~2614~~	~~2732~~	~~2845~~	~~2958~~	~~3133~~
DANGEROUS DRUGS COMPLIANCE OFFICER I	1873	1952	2036	2118	2199	2283	2412
DANGEROUS DRUGS COMPLIANCE OFFICER II	2050	2146	2239	2331	2427	2517	2667
DANGEROUS DRUGS COMPLIANCE OFFICER III	2154	2254	2357	2455	2557	2660	2817
DRUG COMPLIANCE INVESTIGATOR	2962	3116	3269	3422	3580	3730	3962
ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR I	1642	1713	1775	1843	1908	1977	2086
ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR II	1795	1871	1942	2022	2096	2175	2297
EXPLOSIVES INSPECTOR I	1964	2049	2135	2230	2315	2405	2544
EXPLOSIVES INSPECTOR II	2260	2368	2478	2582	2687	2796	2963
FINGERPRINT TECHNICIAN I	1523	1581	1637	1699	1754	1814	1910
FINGERPRINT TECHNICIAN II	1642	1713	1775	1843	1908	1977	2086
FINGERPRINT TECHNICIAN III	1795	1871	1942	2022	2096	2175	2297
FIRE PREVENTION INSPECTOR I	~~1873~~	~~1952~~	~~2036~~	~~2118~~	~~2199~~	~~2283~~	~~2412~~
	2050	2146	2239	2331	2427	2517	2667
FIRE PREVENTION INSPECTOR II	~~2050~~	~~2146~~	~~2239~~	~~2331~~	~~2427~~	~~2517~~	~~2667~~
	2382	2498	2614	2732	2845	2958	3133
GUARD I	~~1378~~	~~1424~~	~~1471~~	~~1518~~	~~1563~~	~~1609~~	~~1689~~
GUARD II	1523	1581	1637	1699	1754	1814	1910
GUARD III	1714	1786	1851	1927	1998	2067	2182
LICENSING ASSISTANT	1472	1523	1576	1630	1683	1739	1832
LICENSING INVESTIGATOR I	1714	1786	1851	1927	1998	2067	2182
LICENSING INVESTIGATOR II	1964	2049	2135	2230	2315	2405	2544
LICENSING INVESTIGATOR III	2050	2146	2239	2331	2427	2517	2667
LICENSING INVESTIGATOR IV	2260	2368	2478	2582	2687	2796	2963
LIQUOR CONTROL SPECIAL AGENT I	1873	1952	2036	2118	2199	2283	2412
MOTORIST ASSISTANCE SPECIALIST	1472	1523	1576	1630	1683	1739	1832
PERSONAL PROPERTY WAREHOUSE EXAMINER	1714	1786	1851	1927	1998	2067	2182
PLANT & PESTICIDE SPECIALIST I	2050	2146	2239	2331	2427	2517	2667
PLANT & PESTICIDE SPECIALIST II	2260	2368	2478	2582	2687	2796	2963
PLUMBING INSPECTOR	2382	2498	2614	2732	2845	2958	3133
POLICE OFFICER I	2154	2254	2357	2455	2557	2660	2817
POLICE OFFICER II	2382	2498	2614	2732	2845	2958	3133
POLYGRAPH EXAMINER I	2382	2498	2614	2732	2845	2958	3133
POLYGRAPH EXAMINER II	2653	2787	2917	3056	3188	3318	3522
POLYGRAPH EXAMINER III	2962	3116	3269	3422	3580	3730	3962
PRODUCTS & STANDARDS INSPECTOR	1795	1871	1942	2022	2096	2175	2297
SECURITY OFFICER	1795	1871	1942	2022	2096	2175	2297
SECURITY OFFICER SERGEANT	1873	1952	2036	2118	2199	2283	2412
SEED ANALYST I	1714	1786	1851	1927	1998	2067	2182
SEED ANALYST II	1795	1871	1942	2022	2096	2175	2297
SITE SECURITY OFFICER	1523	1581	1637	1699	1754	1814	1910
TRUCK WEIGHING INSPECTOR	1581	1640	1704	1765	1831	1894	1992

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VEHICLE EMISSIONS COMPLIANCE INSPECTOR	1795	1871	1942	2022	2096	2175	2297
VEHICLE TESTING COMPLIANCE OFFICER	2050	2146	2239	2331	2427	2517	2667
VEHICLE TESTING STATION INSPECTOR	1795	1871	1942	2022	2096	2175	2297
VITAL RECORDS QUALITY CONTROL INSPECTOR	1795	1871	1942	2022	2096	2175	2297
WAREHOUSE CLAIMS SPECIALIST	2511	2639	2763	2890	3012	3139	3329
WAREHOUSE EXAMINER I	1795	1871	1942	2022	2096	2175	2297
WAREHOUSE EXAMINER II	2050	2146	2239	2331	2427	2517	2667
WAREHOUSE EXAMINER III	2260	2368	2478	2582	2687	2796	2963
WELL INSPECTOR I	1964	2049	2135	2230	2315	2405	2544
WELL INSPECTOR II	2260	2368	2478	2582	2687	2796	2963

Effective: July 1, 1993

	STEPS						
	1	2	3	4	5	6	7
AGRICULTURAL PRODUCTS PROMOTER	1885	1965	2039	2123	2201	2284	2412
ANIMAL & ANIMAL PRODUCTS INVESTIGATOR	2062	2151	2242	2342	2431	2525	2671
ANIMAL HEALTH INSPECTOR	1885	1965	2039	2123	2201	2284	2412
ANIMAL WELFARE INSPECTOR	1885	1965	2039	2123	2201	2284	2412
APIARY INSPECTOR	1399	1447	1493	1536	1587	1631	1715
ARSON INVESTIGATOR I	2262	2367	2475	2578	2685	2793	2958
ARSON INVESTIGATOR II	2501	2623	2745	2869	2987	3106	3290
BREATH ALCOHOL ANALYSIS TECHNICIAN	2153	2253	2351	2448	2548	2643	2800
COMMERCE COMMISSION POLICE OFR I	2262	2367	2475	2578	2685	2793	2958
COMMERCE COMMISSION POLICE OFR II	2501	2623	2745	2869	2987	3106	3290
COMMODITIES INSPECTOR	1724	1799	1864	1935	2003	2076	2190
DANGEROUS DRUGS COMPLIANCE OFFICER I	1967	2050	2138	2224	2309	2397	2533
DANGEROUS DRUGS COMPLIANCE OFFICER II	2153	2253	2351	2448	2548	2643	2800
DANGEROUS DRUGS COMPLIANCE OFFICER III	2262	2367	2475	2578	2685	2793	2958
DRUG COMPLIANCE INVESTIGATOR	3110	3272	3432	3593	3759	3917	4160
ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR I	1724	1799	1864	1935	2003	2076	2190
ENVIRONMENTAL PROTECTION LEGAL INVESTIGATOR II	1885	1965	2039	2123	2201	2284	2412
EXPLOSIVES INSPECTOR I	2062	2151	2242	2342	2431	2525	2671
EXPLOSIVES INSPECTOR II	2373	2486	2602	2711	2821	2936	3111
FINGERPRINT TECHNICIAN I	1599	1660	1719	1784	1842	1905	2006
FINGERPRINT TECHNICIAN II	1724	1799	1864	1935	2003	2076	2190
FINGERPRINT TECHNICIAN III	1885	1965	2039	2123	2201	2284	2412

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

FIRE PREVENTION INSPECTOR I	~~1967~~	~~2050~~	~~2138~~	~~2224~~	~~2309~~	~~2397~~	~~2533~~
	2153	2253	2351	2448	2548	2643	2800
FIRE PREVENTION INSPECTOR II	~~2153~~	~~2253~~	~~2351~~	~~2448~~	~~2548~~	~~2643~~	~~2800~~
	2501	2623	2745	2869	2987	3106	3290
GUARD I	1447	1495	1545	1594	1641	1689	1773
GUARD II	1599	1660	1719	1784	1842	1905	2006
GUARD III	1800	1875	1944	2023	2098	2170	2291
LICENSING ASSISTANT	1546	1599	1655	1712	1767	1826	1924
LICENSING INVESTIGATOR I	1800	1875	1944	2023	2098	2170	2291
LICENSING INVESTIGATOR II	2062	2151	2242	2342	2431	2525	2671
LICENSING INVESTIGATOR III	2153	2253	2351	2448	2548	2643	2800
LICENSING INVESTIGATOR IV	2373	2486	2602	2711	2821	2936	3111
LIQUOR CONTROL SPECIAL AGENT I	1967	2050	2138	2224	2309	2397	2533
MOTORIST ASSISTANCE SPECIALIST	1546	1599	1655	1712	1767	1826	1924
PERSONAL PROPERTY WAREHOUSE EXAMINER	1800	1875	1944	2023	2098	2170	2291
PLANT & PESTICIDE SPECIALIST I	2153	2253	2351	2448	2548	2643	2800
PLANT & PESTICIDE SPECIALIST II	2373	2486	2602	2711	2821	2936	3111
PLUMBING INSPECTOR	2501	2623	2745	2869	2987	3106	3290
POLICE OFFICER I	2262	2367	2475	2578	2685	2793	2958
POLICE OFFICER II	2501	2623	2745	2869	2987	3106	3290
POLYGRAPH EXAMINER I	2501	2623	2745	2869	2987	3106	3290
POLYGRAPH EXAMINER II	2786	2926	3063	3209	3347	3484	3698
POLYGRAPH EXAMINER III	3110	3272	3432	3593	3759	3917	4160
PRODUCTS & STANDARDS INSPECTOR	1885	1965	2039	2123	2201	2284	2412
SECURITY OFFICER	1885	1965	2039	2123	2201	2284	2412
SECURITY OFFICER SERGEANT	1967	2050	2138	2224	2309	2397	2533
SEED ANALYST I	1800	1875	1944	2023	2098	2170	2291
SEED ANALYST II	1885	1965	2039	2123	2201	2284	2412
SITE SECURITY OFFICER	1599	1660	1719	1784	1842	1905	2006
TRUCK WEIGHING INSPECTOR	1660	1722	1789	1853	1923	1989	2092
VEHICLE EMISSIONS COMPLIANCE INSPECTOR	1885	1965	2039	2123	2201	2284	2412
VEHICLE TESTING COMPLIANCE OFFICER	2153	2253	2351	2448	2548	2643	2800
VEHICLE TESTING STATION INSPECTOR	1885	1965	2039	2123	2201	2284	2412
VITAL RECORDS QUALITY CONTROL INSPECTOR	1885	1965	2039	2123	2201	2284	2412
WAREHOUSE CLAIMS SPECIALIST	2637	2771	2901	3035	3163	3296	3495
WAREHOUSE EXAMINER I	1885	1965	2039	2123	2201	2284	2412
WAREHOUSE EXAMINER II	2153	2253	2351	2448	2548	2643	2800
WAREHOUSE EXAMINER III	2373	2486	2602	2711	2821	2936	3111
WELL INSPECTOR I	2062	2151	2242	2342	2431	2525	2671
WELL INSPECTOR II	2373	2486	2602	2711	2821	2936	3111

(Source: Amended at 16 Ill. Reg. _____, effective _____
_____)

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Section 310. TABLE U HR-010 (Teachers of Deaf, Extracurricular Paid Activities)

		Effective August, 1989 to June, 1990
Football	Head Coach (High School)	1,825
	Assistant Coach (High School)	1,150
Basketball	Head Coach (High School)	1,825
	Assistant Coach (High School)	1,150
	Coach (Junior High School)	1,150
Track	Head Coach (High School)	1,150
	Assistant Coach (High School)	725
	Head Coach (Junior High School)	725
	Assistant Coach (Junior High School)	725
Volleyball	Head Coach (High School)	1,825
	Assistant Coach (High School)	1,150
	Head Coach (Junior High School)	600
	Assistant Coach (Junior High School)	600
Wrestling	Head Coach (High School)	1,825
	Assistant Coach (High School)	1,150
	Head Coach (Junior High School)	1,150
	Assistant Coach (Junior High School)	550
Senior Class Adviser		1,050

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Junior Class Adviser		1,050
Student Government Adviser		425
Cheerleader Adviser	(High School)	650
	(Junior High School)	475
GALS		550
Junior NAD		525
Scouts	Girls and Boys	425
	Cubs and Brownies	425
ABC Reading		425
Dramatics	Creative	425
Interpreter		425
Public Speaking		425
Usher's Syndrome		425
Computer Club		525
Dance Club		425
Sewing Club		425
Vocational Club		550
Alateen		550
High School Yearbook		525
Illinois Advance		300
Scorekeepers and Timers (Per Event)	Football	26
	Basketball	26
	Volleyball	21
	Wrestling	26
Ticket Sellers and Takers (Per Event)		16

If management establishes any new activities, the Union and the Administration shall negotiate the working conditions and compensation of the new activity.

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

		Effective August, 1990 to June, 1991
Football	Head Coach (High School)	1,898
	Assistant Coach (High School)	1,196
Basketball	Head Coach (High School)	1,898
	Assistant Coach (High School)	1,196
	Coach (Junior High School)	1,196
Track	Head Coach (High School)	1,196
	Assistant Coach (High School)	754
	Head Coach (Junior High School)	1,196
	Assistant Coach (Junior High School)	754
Volleyball	Head Coach (High School)	1,898
	Assistant Coach (High School)	1,196
	Head Coach (Junior High School)	1,196
	Assistant Coach (Junior High School)	754
Wrestling	Head Coach (High School)	1,898
	Assistant Coach (High School)	1,196
	Head Coach (Junior High School)	1,196
	Assistant Coach (Junior High School)	754
Senior Class Adviser		1,898
Junior Class Adviser		1,898

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

NOTICE OF PROPOSED AMENDMENTS

Cheerleader Sponsors	Basketball & Football (High School)	1,196
	Basketball (Junior High School)	754
GALS		572
Junior NAD		572
4-H Club		572
Creative Club		572
Dance Club		572
Vocational Club		572
Student Council		442
Public Speaking		442
ABC Reading		442
Illinois Advance		442
Interpreters		442
Special Olympics		442
Scouts	Girls and Boys	442
	Cubs and Brownies	442
Scorekeepers and Timers (Per Event)	Football	27
	Basketball	27
	Volleyball	22
	Wrestling	27
Ticket Sellers and Takers (Per Event)		17

If management establishes any new activities, the Union and the Administration shall negotiate the working conditions and compensation of the new activity.

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Effective: School Year 1991-1992

CLASSIFICATION I

High School Head Coaches:	
Volleyball (1)	1,898
Football (1)	1,898
Wrestling (1)	1,898
Basketball - Boys (1)	1,898
Basketball - Girls (1)	1,898
Other Activities:	
Senior Class Sponsors (2)	1,898
Junior Class Sponsors (2)	1,898

CLASSIFICATION II

High School Head Coaches:	
Track - Boys (1)	1,198
Track - Girls (1)	1,198
High School Assistant Coaches:	
Volleyball (1)	1,198
Football (2)	1,198
Wrestling (1)	1,198
Basketball - Boys (1)	1,198
Basketball - Girls (1)	1,198
Junior High Head Coaches:	
Basketball (2)	1,198
Wrestling (1)	1,198
Volleyball (1)	1,198
Track - Boys (1)	1,198
Track - Girls (1)	1,198
Cheerleader Sponsors:	
High School Basketball & Football (2)	1,198

CLASSIFICATION III

High School Assistant Coaches:	
Track - Boys (1)	754
Track - Girls (1)	754
Cheerleader Sponsors:	
Junior High Basketball (2)	754

DEPARTMENT OF CENTRAL MANAGEMENT SERVICES

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Junior High Assistant Coaches:	
Volleyball (1)	754
Wrestling (1)	754
Track - Boys (1)	754
Track - Girls (1)	754

CLASSIFICATION IV

Other Activities:	
G.A.L.S. (2)	572
Junior Nad (2)	572
4-H Club (2)	572
Vocational Club (2)	572
Creative Club (2)	572
Dance Club (2)	572

CLASSIFICATION V

Other Activities:	
Student Council (1)	442
Public Speaking (2)	442
ABC Reading (1)	442
Illinois Advance (4)	442
Interpreters (4)	442
Special Olympics (1)	442
Brownies (1)	442
Cub Scouts (1)	442
Girl Scouts (1)	442
Boy Scouts (1)	442
SCOREKEEPERS AND TIMERS:	
Basketball, Football and Wrestling	27 per event
Volleyball	22 per event
Ticket Sellers and Takers	17 per event

(Source: Amended at 16 Ill. Reg. _____, Effective _____
_____)

DEPARTMENT OF CONSERVATION

NOTICE OF PROPOSED AMENDMENTS

1) HEADING OF THE PART: The Taking of Wild Turkeys - Spring Season

2) CODE CITATION: 17 Ill. Adm. Code 710

3)

SECTION NUMBERS:	PROPOSED ACTION:
710.10	Amendments
710.20	Amendments
710.30	Amendments
710.50	Amendments

4) STATUTORY AUTHORITY: Implementing and authorized by Sections 1.3, 1.4, 1.20, and 2.9 of the Wildlife Code (Ill. Rev. Stat. 1991, ch. 61, pars. 1.3, 1.4, 1.20, and 2.9), and Sections 2.10 and 2.11 of the Wildlife Code (Ill. Rev. Stat. 1991, ch. 61, pars. 2.10 and 2.11).

5) A COMPLETE DESCRIPTION OF THE SUBJECTS AND ISSUES INVOLVED: This Part is being amended to change season dates, add eight new counties and add language to further clarify the rulemaking.

6) WILL THIS PROPOSED RULE REPLACE AN EMERGENCY RULE CURRENTLY IN EFFECT? No

7) DOES THIS RULEMAKING CONTAIN AN AUTOMATIC REPEAL DATE? No

8) DO THESE PROPOSED AMENDMENTS CONTAIN INCORPORATIONS BY REFERENCE? No

9) ARE THERE ANY OTHER PROPOSED AMENDMENTS PENDING ON THIS PART? No

10) STATEMENT OF STATEWIDE POLICY OBJECTIVES: This rule has no impact on local governments.

11) TIME, PLACE AND MANNER IN WHICH INTERESTED PERSONS MAY COMMENT ON THIS PROPOSED RULEMAKING: Comments on the proposed rule may be submitted in writing for a period of 30 days following publication of this notice to:

Jack Price
Department of Conservation
524 S. Second Street, Room 485
Springfield, IL 62701-1787

12) INITIAL REGULATORY FLEXIBILITY ANALYSIS: This rule does not affect small businesses

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THE FULL TEXT OF THE PROPOSED AMENDMENTS BEGINS ON THE NEXT PAGE:

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NOTICE OF PROPOSED AMENDMENTS

TITLE 17: CONSERVATION
CHAPTER I: DEPARTMENT OF CONSERVATION
SUBCHAPTER b: FISH AND WILDLIFE

PART 710
THE TAKING OF WILD TURKEYS - SPRING SEASON

Section
710.10 Hunting Seasons
710.20 Turkey Permit Requirements
710.21 Turkey Permit Requirements - Special Hunts
710.30 Turkey Hunting Regulations
710.40 Other Regulations (Repealed)
710.50 Regulations at Various Department Owned or Managed Sites
710.60 Releasing or Stocking of Turkeys

AUTHORITY: Implementing and authorized by Sections 1.3, 1.4, 1.20, and 2.9 of the Wildlife Code (Ill. Rev. Stat. 1991, ch. 61, pars. 1.3, 1.4, 1.20, and 2.9), and Sections 2.10 and 2.11 of the Wildlife Code (Ill. Rev. Stat. 1991, ch. 61, pars. 2.10 and 2.11).

SOURCE: Adopted at 4 Ill. Reg. 15, p. 153, effective April 1, 1980; codified at 5 Ill. Reg. 10643; amended at 6 Ill. Reg. 3852, effective March 31, 1982; amended at 7 Ill. Reg. 4208, effective March 25, 1983; amended at 8 Ill. Reg. 5663, effective April 16, 1984, amended at 9 Ill. Reg. 6200, effective April 24, 1985; amended at 10 Ill. Reg. 6848, effective April 4, 1986; amended at 11 Ill. Reg. 2267, effective January 20, 1987; amended at 12 Ill. Reg. 5342, effective March 8, 1988; amended at 13 Ill. Reg. 5090, effective April 4, 1989; amended at 14 Ill. Reg. 663, effective January 2, 1990; amended at 15 Ill. Reg. 4161, effective March 4, 1991; amended at 16 Ill. Reg. 1843, effective January 17, 1992; amended at 17 Ill. Reg. _____, effective _____.

Section 710.10 Hunting Seasons

a) Season Dates:

1st Season: Monday, April ~~13~~12 - Friday, April ~~17~~16, ~~1992~~1993.

2nd Season: Saturday, April ~~18~~17 - ~~Friday~~Thursday, April ~~24~~22, ~~1992~~1993.

3rd Season: ~~Saturday~~Friday, April ~~25~~23 - ~~Wednesday~~Friday, ~~May 6, 1992~~April

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30, 1993.

4th Season: Saturday, May 1 - Wednesday, May 12, 1993

b) Open Counties:

COUNTIES	
Adams	
Alexander	
Bond	(west of State Highway 127 only)
Brown	
Bureau	
Calhoun	
Carroll	
Cass	
Clark	
Clay	
Cumberland	
Effingham	
Fayette	
Fulton	
Gallatin-Hardin	
Greene	
Hancock	
Henderson	
Jackson	
Jersey	
Jo Daviess	
Johnson	
Knox	
Macoupin	
Marion	
Marshall-Putnam	(east of Illinois River only; north of State Highway 17 and south of the McNabb Blacktop (County Road 500 N.) only)
McDonough	
Mercer	
Monroe	
Ogle	
Pike	
Pope	
Randolph	

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Rock Island
Saline
Schuyler
Scott
Stephenson
Union
Washington
Whiteside
Williamson
Winnebago

(Source: Amended at 17 Ill. Reg. _____, effective _____)

Section 710.20 Turkey Permit Requirements

a) To take, or attempt to take, a wild turkey, Illinois residents must first obtain a "Wild Turkey Hunting Permit" from the Department of Conservation for a fee of $15.00. Non-resident turkey hunters shall be charged the same fee for wild turkey hunting permits as that charged residents of Illinois by the state in which the applicant resides, except that in no case shall the fee be less than $30.00. If the state in which the applicant resides does not provide for turkey hunting by Illinois residents, then the fee shall be $75.00. Non-residents are also required to obtain a Non-Resident Hunting License before hunting wild turkeys. Residents, except those exempted by Section 3.1 of the Wildlife Code (Ill. Rev. Stat. 1991, ch. 61, par. 3.1) are also required to obtain a hunting license before hunting wild turkey. Permits are issued for a specific county or area and are valid only in the county or area designated on the permit. Applications for wild turkey permits must be mailed to:

Department of Conservation - Turkey
524 S. Second Street, Room 210
P. O. Box 19446
Springfield, Illinois 62794-9446

b) Applicants must complete all portions of the permit application form. Incomplete applications will be rejected and fees returned. Each applicant must submit a personal check or money order for his/her individual application. Not more than 46 applications may be submitted for group hunters. Applicants submitting applications within three weeks of the season will not be guaranteed receipt of permit by start of season.

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c) Applications from Illinois residents will be accepted January ~~24~~ through January ~~10~~13. Applications received in the permit office after close of business on January ~~10~~15, except for those postmarked before January ~~11~~16, will be returned and will not be included in the computerized drawing. All requests must be on an official application form. Permits are not transferable and refunds will not be granted. Permits will be allocated in a computerized drawing to be held in Springfield in which the first choice of seasons will be allocated before the second or third choices are considered.

d) Permits not issued during the computerized drawing will be available in a random daily drawing. Starting dates of the random daily drawing will be publicly announced. All hunters not receiving a permit in the computerized drawing and non-residents may apply at this time for the available permits.

e) Any permits not issued as of the second Monday in March will also be available in a random daily drawing to those hunters who have previously received one permit.

f) Landowners or tenants of 40 acres or more land and members of their immediate family may apply for one free turkey permit for their property only in counties open for turkey hunting. A tenant for the purpose of this Part is one who rents 40 acres or more land for commercial agricultural purposes under an agreement with a landowner. Commercial agriculture shall be defined as utilization of land for the raising of hay, grain crops or livestock for profit. All landowners or tenants that do not reside on the property must possess a valid hunting license.

g) Landowners or tenants are not required to participate in the public drawing for permits ~~and are not counted toward the total number of permits issued for a particular county~~. Landowner/tenant permits are valid for the entire ~~24~~31 days

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encompassed by the ~~3~~4 seasons, but allow the taking of only one wild turkey.

1) The immediate family is limited to the spouse, children, and parents permanently residing on the same property as the landowner or tenant.

2) Proof of ownership for all free landowner or tenant applications must be provided by one of the following methods:

A) Submittal of a copy of property deed;

B) Submittal of a copy of contract for deed;

C) Submittal of copy of most recent real estate tax statement upon which landowner's name appears;

D) Submittal of a copy of either an Agricultural Stabilization and Conservation Service Form 476 or Commodity Credit Corporation Form 477; or

E) Submittal of a copy of a trust agreement which must indicate that the trust owns at least 40 acres and the applicant is a beneficiary of the trust.

3) If you are applying for a tenant permit, you are required to submit, in addition to the landowner certification and proof of ownership, a copy of one of the following:

A) Submittal of a copy of a lease (not a hunting rights lease) or rental agreement, file stamped as recorded by the county desk, covering the current year; or

B) Submittal of a copy of either an Agricultural Stabilization and Conservation Service Form 476 or Commodity Credit Corporation Form 477.

4) A hunting rights lease, or other non-agricultural lease, is not valid for a

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landowner or tenant permit.

5) If the property is owned or rented by more than one person: Only one landowner (and his immediate family) or one tenant (and his immediate family) will be issued a permit for every 40 acres of owned or rented land. For example, if 3 persons own 90 acres, only 2 of the landowners and their immediate family may receive turkey permits.

~~6) For example, if 3 persons own 90 acres, only 2 of the landowners and their immediate family may receive turkey permits.~~

~~7)~~6) Shareholders of corporations owning 40 or more acres of land in a county may apply for a free permit to hunt the corporation lands only. Only one permit per 40 acres, for a maximum number of 15 permits per county shall be issued based on ownership of lands by corporations. Lands leased to corporations shall not be considered as a basis for a free permit for the shareholders of the lessee. Lands held in trust by corporations shall not be considered as a basis for a free permit by the shareholders of the trustee. If application is made for a free permit based upon lands owned by the corporation, a duly authorized officer of the corporation must sign a notarized statement authorizing the applicant to hunt on the corporate lands for which a permit is being requested. This statement must identify the applicant is a shareholder, identify authorization to hunt and identify that no more than 15 authorizations will be requested per county for the corporation lands. This document must be attached to the application upon submittal to the Permit Office.

~~8)~~7) Landowners or tenants who obtain a free permit to hunt their owned or leased property may apply for ~~a secondup~~ to two additional county-wide permits ($15.00 fee) from any permits not issued as of the second Monday in March in a random daily drawing.

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8) Applicants for free landowner or tenant permits who will not be at least 16 years of age by the opening date of the turkey hunting season applied for must provide proof at the time of application that they have held a hunting license issued by the State of Illinois, or another state in a prior year, or a certificate of competency as provided in Section 3.2 of the Wildlife Code.

h) A $3.00 service fee will be charged for replacement permits issued by the Department.

i) It shall be unlawful to:

1) Submit applications before the second Monday in March for receiving more than one permit for the same person, and thereafter, submittal of applications for receiving more than ~~two~~three permits for the same person. Applicants may apply for ~~a second~~ up to two additional permits prior to the second Monday in March if the application and the outside of the envelope are marked "Application for March Drawing - ~~Second~~Additional Permit." Such applications will not be processed until the second Monday in March.

2) Provide false and/or deceptive information on a permit application form. In addition to criminal charges, individuals found guilty of violating this section shall have their application rejected, permit revoked, and fees forfeited.

(Source: Amended at 17 Ill. Reg. _____, effective _____)

Section 710.30 Turkey Hunting Regulations

It is unlawful:

a) to use live turkey decoys, recorded calls, dogs, or bait;

b) to take any wild turkey except a hen with a visible beard or a gobbler (male);

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c) to take, or attempt to take, more than ~~two~~three wild turkeys during the spring season, one must have a valid permit for each turkey that is taken;

d) to use any weapon except a shotgun or bow and arrow. #4 shot is the largest and #7 1/2 is the smallest size shot that may be legally used. Archers may use a long, recurved, or compound bow with a minimum pull of 40 pounds at some point within a 28-inch draw; an arrow with a metal barbless broadhead that cannot pass through a 7/8 inch diameter hole is the only legal arrow. Any mechanical device capable of maintaining a drawn position or partially drawn position on a bow is illegal. All other bows and arrows, including electronic arrow tracking systems, are illegal;

e) to hunt except from 1/2 hour before sunrise to noon during each day of the season;

f) for any person having taken the legal limit of wild turkey(s) to further participate with a weapon in any hunting party for the purpose of taking additional wild turkeys;

g) for any person to ~~hunt wild turkeys without having a signed Wild Turkey Hunting Permit in possession~~have in their possession while in the field during wild turkey season, any turkey permit issued to another person (permits are non-transferable);

h) to transport or leave a wild turkey without first affixing the adhesive-backed turkey permit securely around the leg. Leg tag must be affixed to the turkey immediately upon ~~taking possession~~kill and before the turkey is moved, transported or field dressed. The wild turkey shall be taken whole (or field dressed) to the designated check station for the county in which it was killed, or the closest check station, by the hunter in person by 2:00 P.M. the same day it was killed. It will be checked, tagged and recorded by the Department at the check station.

i) for any person to shoot a wild turkey while it is in a tree before 7:00 a.m.

j) for any person to hunt wild turkeys without

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possessing a Wild Turkey Hunting Permit which shall include the hunter's signature, date of birth, Firearm Owner's Identification number (unless exempt), hunting license number (unless exempt) and physical description recorded on the permit and carried on the person while hunting.

~~j)~~k) For any person to use a turkey call or to attempt to call a turkey while in the field from April 1 through the day before turkey season in counties open to turkey hunting.

(Source: Amended at 17 Ill. Reg. _____, effective _____)

Section 710.50 Regulations at Various Department Owned or Managed Sites

a) Statewide regulations shall apply for the following sites:

Amax Leased Lands

Carlyle Lake Wildlife Management Area

LaRue Scatters

Mark Twain N.W.R., Gardner Division

Mississippi River Fish and Wildlife Area

Mississippi River Pools ~~#18 (Henderson County)~~16, 17 and 18

Oakwood Bottoms

Panther Creek Conservation Area

Pike County Conservation Area

Rockhouse Creek (Monroe County)

Saline County Conservation Area

Wildcat Hollow State Forest

b) Statewide regulations shall apply except that all hunters must check in and out and report turkeys

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harvested at the check station for the following sites:

Anderson Lake Conservation Area

Cache River State Natural Area - Little Black Slough Hunting Area

Fort de Chartres - muzzleloading shotgun or archery only.

Giant City State Park - hunting allowed only in designated zones.

Kaskaskia River State Fish and Wildlife Area - south of Highway 154 only.

Kincaid Lake Fish and Wildlife Area

Pere Marquette State Park - designated open zone in southeast portion of the Park only.

Trail of Tears State Forest

Turkey Bluffs Fish and Wildlife Area

Union County Conservation Area - Firing line management unit only.

Weinburg-King State Park - hunting allowed only in designated zones.

c) Statewide regulations shall apply and a drawing will be held the day prior to each day's hunt to fill the area's daily hunter quota. All hunters must check in and out at the check station. Hunters will be allowed to hunt in designated zones only.

Argyle Lake State Park

~~Beaver Dam State Park~~

Big River State Forest

Castle Rock State Park

Lowden-Miller State Forest

DEPARTMENT OF CONSERVATION

NOTICE OF PROPOSED AMENDMENTS

Mississippi Palisades State Park

Pere Marquette State Park

Randolph County Conservation Area

Siloam Springs State Park

Witkowsky Conservation Area

d) Statewide regulations shall apply except that all hunters must sign in and check out to report turkeys harvested. There will be a daily quota of hunters which will be taken on a first-come, first-served basis. Hunters will not be allowed to sign in prior to 4 a.m. each day of the season.

Tapley Woods

e) Statewide regulations shall apply and a drawing will be held the day prior to each of the three seasons to fill the hunter quota. All hunters must check in and out at the check station. Hunters will be allowed to hunt in designated zones only.

Ferne Clyffe State Park

Stephen A. Forbes State Park

Ramsey Lake State Park

f) Additional regulations may be posted at the sites when more restriction is required. These additional regulations shall include, but not be limited to, selected check stations, limited hunting hours, and designated first-come first-serve sites.

(Source: Amended at 17 Ill. Reg. _____, effective _____)

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED REPEALER

1) Heading of Part: Public Participation in the Air Pollution Permit Program

2) Code Citation: 35 Ill. Adm. Code 253

3)

Section Numbers:	Proposed Action:
253.101	Repeal
253.102	Repeal
253.103	Repeal
253.201	Repeal
253.202	Repeal
253.203	Repeal
253.204	Repeal

4) Statutory Authority: Environmental Protection Act, Ill. Rev. Stat. 1991, ch. 111 1/2.

5) A Complete Description of the Subjects and Issues Involved: This entire part is being repealed and all applicable public participation rules shall be contained within amended Part 252.

6) Will this proposed rule replace an emergency rule currently in effect? No.

7) Does this rulemaking contain an automatic repeal date? ___ Yes _X_ No

If "yes", please specify the date: _____

8) Does this proposed rule (amendment, repealer) contain incorporations by reference? No.

9) Are there any other proposed amendments pending on this Part? No.

Section Numbers	Proposed Action	Illinois Register Citation

10) Statement of Statewide Policy Objectives: These proposed rules do not create or enlarge a state mandate as defined in Section 3(b) of the State Mandates Act (Ill. Rev. Stat. 1991, ch. 85, par. 2203(b)).

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED REPEALER

11) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: A public hearing will be held on the proposed rules on Friday, December 18, 1992, at 1:30 p.m., in Conference Room D at the offices of the Illinois Environmental Protection Agency located at 1340 North Ninth Street, Springfield, Illinois.

The Agency will consider all written comments on the repeal of this Part postmarked within 45 days of the date of this publication. Written comments need not be notarized and should be addressed to:

Illinois Environmental Protection Agency
Attn: Sharon Davis
Post Office Box 19276
Springfield, Illinois 62794-9276
217/524-3333

12) Initial Regulatory Flexibility Analysis: No small businesses will be affected to a degree greater than currently required by 35 Ill. Adm. Code 201.302(a) and (b). Consequently, a Regulatory Flexibility Analysis is not applicable.

A) Date rule was submitted to the Business Assistance Office of the Department of Commerce and Community Affairs: November 20, 1992

B) Types of small businesses affected: The types of small businesses affected will be those that are stationary sources of regulated air pollutants and that are required to have operating permits under state or federal statutes or regulations.

c) Reporting, bookkeeping or other procedures required for compliance: None.

D) Types of professional skills necessary for compliance: None.

The full text of the Proposed Rule begins on the next page:

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED REPEALER

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER II: ENVIRONMENTAL PROTECTION AGENCY

PART 253
PUBLIC PARTICIPATION IN THE
AIR POLLUTION PERMIT PROGRAM

SUBPART A: INTRODUCTION

Section
253.101 Purpose
253.102 Applicability
253.103 Definitions

SUBPART B: PROCEDURES FOR PUBLIC REVIEW

Section
253.201 Notice and Opportunity to Comment
253.202 Draft Permit and Denial Letter
253.203 Availability of Documents
253.204 Opportunity for Public Hearing

AUTHORITY: Implementing and authorized by Sections 4, 9.1(f), 39, and 39.1(c) and (d) of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 1004, 1009.1(f), 1039, 1039.1(c) and (d)).

(SOURCE: Adopted at 4 Ill. Reg. 10, p. 246, effective February 22, 1980; old rules repealed and new rules adopted at 8 Ill. Reg. 8189, effective June 1, 1984; repealed at ___, Ill. Reg. _____, effective _____)

SUBPART A: INTRODUCTION

Section 253.101 Purpose

These rules are adopted:

a) To specify public participation procedures which must accompany review of certain permit applications;

b) To satisfy Sections 39.1(c) and (d) of the Illinois Environmental Protection Act (Ill. Rev. Stat. 1983 ch. 111 1/2, pars. 1039.1(c) and (d) which require notice and opportunity to comment prior to the issuance of an alternative control strategy permit;

c) To satisfy 40 CFR 51.24(q) (1983) which require a period of public review and an opportunity for a hearing prior to the issuance of permits for major sources in attainment areas; and

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED REPEALER

d) To assure that the public has an opportunity to understand and comment on proposed permits, especially where the permit application is of public interest.

Section 253.102 Applicability

a) These rules apply to permit applications filed with the Agency for:

1) Sources proposing to use Alternative Control Strategies pursuant to 35 Ill. Adm. Code 202, except for applications which the Agency proposes to deny;

2) Construction of new major stationary sources or major modifications in attainment areas pursuant to rules for "Prevention of Significant Deterioration of Air Quality," (PSD) at 40 CFR 52.21 (1983).

3) Controversial sources.

b) The Director shall determine whether a source is controversial. In making the decision, the Agency shall consider:

1) The type of permit for which the application is made;

2) The nature and amount of pollutants which will be emitted by the source;

3) The potential effects of the emissions on health and the environment;

4) The proposed location of the source;

5) The interest in the source exhibited by the public, based on comments and inquiries received by the Agency; and

6) Other factors which are distinctive to the proposed source.

c) These procedures shall not apply to renewals of operating permits unless the applicant proposes to modify the activities so as to constitute a different operation.

Section 253.103 Definitions

Terms in these rules shall have the same meaning as defined in Section 3 of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 1003), the Pollution Control Board Rules and Regulations on Air Pollution, 35 Ill. Adm. Code: Subtitle B, Chapter I, and the PSD rules at 40 CFR 51.24 (1983), as appropriate to the subject matter of the permit.

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED REPEALER

Section 253.201 Notice and Opportunity to Comment

a) The Agency shall issue a notice of its intent to grant or deny a permit subject to these rules.

b) The notice shall be sent to:

1) The public, by display advertisement in a general circulation newspaper in the area of the source;

2) The Administrator of the U.S. Environmental Protection Agency (USEPA) by notifying the USEPA Region 5 office;

3) Local government air pollution control offices in the area affected by the source;

4) The chief executives of the municipality and county in which the source is to be located;

5) Members of the General Assembly from the legislative district in which the source is to be located;

6) In the case of a source whose emissions may affect an adjacent state, the bordering state or local air pollution control agency;

7) For a PSD source, other officials and agencies identified in 40 CFR 51.24(q((iv) (1983);

8) The permit applicant; and

9) Persons on the public participation mailing list for the air pollution permit program.

c) The notice shall include:

1) The name of the applicant;

2) The location of the project;

3) The preliminary decision of the Agency to grant or deny the permit;

4) For a PSD permit, the amount of increment consumed by the project;

5) The location of the documents available for public

6) A request for comments on the Agency's draft permit proposed denial;

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED REPEALER

7) The date by which comments must be postmarked; and

8) Instructions on how to request a public hearing.

d) The notice to the applicant shall also include:

1) The draft permit or proposed denial letter and summary required by Section 253.202, and

2) Notice of an opportunity for hearing on an ACS permit pursuant to Section 39.1(d) of the Environmental Protection Act.

e) The notice shall provide for a 30-day public comment period. The Agency may extend the comment period on written request any applicable statutory period for the Agency decision, as prescribed in Section 39 of the Act, allows for an extension.

Section 253.202 Draft Permit and Denial Letter

a) If the Agency proposes to issue the permit, the Agency shall prepare for public review a draft permit with findings and proposed conditions.

b) If the Agency proposes to deny the permit, the Agency shall prepare a denial letter which states the Agency's findings as related to its basis for denial.

c) The Agency shall prepare a summary of its review of the application to accompany the draft permit or denial letter. The summary shall describe the basis of the Agency's decisions to grant or deny the permit.

Section 253.203 Availability of Documents

a) The following documents shall be made available for public inspection during the 30-day public comment period prior to the Agency's final action on a permit application.

1) A copy of the permit application;

2) The Agency draft permit or proposed denial letter;

3) The Agency summary; and

4) The public notice.

b) Copies of the documents shall be placed in:

1) The Agency library, 2200 Churchill Road, Springfield;

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED REPEALER

2) The Division of Air Pollution Control regional or district office closest to the location of the proposed source; and

3) A library or other facility to which the public has access in the county where the source is to be located.

c) All other documents associated with the permit application shall be available in accordance with procedures of the Agency and of the Pollution Control Board (35 Ill. Adm. Code 12) adopted pursuant to Sections 7 and 7.1 of the Act (Ill. Rev. Stat. 1083, Ch. 111 1/2, pars. 1007 and 1007.1).

d) A summary of comments received by the Agency and a copy of the Agency's final decision will be placed in the locations listd in Section 253.203(b)).

Section 253.204 Opportunity for Public Hearing

a) A public hearing shall be held on any permit application subject to these rules if the Agency receives a written request for a hearing from:

1) Twenty-five persons either individually or in a petition;

2) A member of the General Assembly representing the district in which the source is to be located;

3) A chief executive officer from a county or municipality in which the source is to be located; or

4) The applicant.

b) The Director or designee shall order that hearing be held on a permit application subject to these rules when the Agency has determined that hearing would serve the interests of the public or of the Agency. In making this determination, the Agency will consider:

1) The level of public interest as indicated by the inquiries and comments received by the Agency on the proposed permits; and

2) The opportunity to increase public understanding of the project and of the Agency's proposed decision by means of public hearing.

c) Except for hearings on PSD permit applications or hearings requested by the ACS permit applicant pursuant to Section 39.1(d) of the Act, the hearings shall be conducted in accordance with the Agency's "Procedures for Permit Hearings," (35 Ill. Adm. Code 166).

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NOTICE OF PROPOSED REPEALER

d) Hearings on PSD permit applications or hearings requested by the ACS permit applicant pursuant to Section 39.1(d) of the Act shall be conducted in accordance with the Agency's "Rules of Practice and Procedure for Contested Case Hearings," (35 Ill. Adm. Code 168).

e) Hearings requested by both the applicant and the public on an ACS permit shall be conducted in accordance with 35 Ill. Adm. Code 168.

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED AMENDMENTS

1) Heading of Part: Public Participation in the Air Pollution Permit Program for major sources in nonattainment areas.

2) Code Citation: 35 Ill. Adm. Code 252

3) Section Numbers: Proposed Action:

252.101	Amend
252.102	Amend
252.103	Repeal, New
252.104	New Section
252.105	New Section
252.201	Amend
252.202	Amend
252.203	Repeal, New
252.204	Repeal, New
252.205	New
252.206	New
252.301	New Section
252.401	New Section

4) Statutory Authority: Environmental Protection Act, Ill. Rev. Stat. 1991, ch. 111 1/2.

5) A Complete Description of the Subjects and Issues Involved: This entire part is being repealed and all applicable public participation rules shall be contained within amended Part 252.

6) Will this proposed rule replace an emergency rule currently in effect? No.

7) Does this rulemaking contain an automatic repeal date? ___ Yes X No

If "yes", please specify the date: _____

8) Does this proposed rule (amendment, repealer) contain incorporations by reference? No.

9) Are there any other proposed amendments pending on this Part? No.

Section Numbers	Proposed Action	Illinois Register Citation

10) Statement of Statewide Policy Objectives: These proposed rules do not create or enlarge a state mandate as defined in Section 3(b) of the State Mandates Act (Ill. Rev. Stat. 1991, ch. 85, par. 2203(b)).

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NOTICE OF PROPOSED AMENDMENTS

11) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: A public hearing will be held on the proposed rules on Friday, December 18, 1992, at 1:30 p.m., in Conference Room D at the offices of the Illinois Environmental Protection Agency located at 1340 North Ninth Street, Springfield, Illinois.

The Agency will consider all written comments on the repeal of this Part postmarked within 45 days of the date of this publication. Written comments need not be notarized and should be addressed to:

Illinois Environmental Protection Agency
Attn: Sharon Davis
Post Office Box 19276
Springfield, Illinois 62794-9276
217/524-3333

12) Initial Regulatory Flexibility Analysis: No small businesses will be affected to a degree greater than currently required by 35 Ill. Adm. Code 201.302(a) and (b). Consequently, a Regulatory Flexibility Analysis is not applicable.

A) Date rule was submitted to the Business Assistance Office of the Department of Commerce and Community Affairs: November 20, 1992

B) Types of small businesses affected: The types of small businesses affected will be those that are stationary sources of regulated air pollutants and that are required to have operating permits under state or federal statutes or regulations.

c) Reporting, bookkeeping or other procedures required for compliance: None.

D) Types of professional skills necessary for compliance: None.

The full text of the Proposed Rule begins on the next page:

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED AMENDMENTS

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER II: ENVIRONMENTAL PROTECTION AGENCY

PART 252
PUBLIC PARTICIPATION IN THE
AIR POLLUTION CONTROL PERMIT PROGRAM
~~FOR-MAJOR-SOURCES-IN-NONATTAINMENT-AREAS-~~

SUBPART A: INTRODUCTION

Section
252.101 Purpose
252.102 Applicability
252.103 ~~Definitions~~ Prevention of Significant Deterioration Application
252.104 Definitions
252.105 Consolidation

SUBPART B: PROCEDURES FOR PUBLIC REVIEW

Section
252.201 Notice and Opportunity to Comment
252.202 Draft Permit ~~and-Denial-Letter~~
252.203 ~~Availability-of-Documents~~ Fact Sheet and Statement of Basis
252.204 ~~Opportunity-for-Public-Hearing~~ Availability of Documents
252.205 Opportunity for Public Hearing
252.206 Procedures for Public Hearings

SUBPART C: USEPA REVIEW AND OBJECTION PROCEDURES

Section
252.301 USEPA Review and Objection

SUBPART D: AGENCY ACTION

Section
252.401 Final Permit Action

AUTHORITY: Implementing and authorized by Sections 4, 9.1(d), 9.1(e), 39 and 39.1(c) and (d) of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 1004, 1009.1(d), 1009.1(e), 1039, 1039.1(c) and (d)).

(SOURCE: Adopted at 4 Ill. Reg. 10, p. 246, effective February 22, 1980; old rules repealed and new rules adopted at 8 Ill. Reg. 8197, effective June 1, 1984; amended at ___ Ill. Reg. _____, effective _____)

SUBPART A: INTRODUCTION

Section 252.101 Purpose

ENVIRONMENTAL PROTECTION AGENCY

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~~These rules are adopted to satisfy 40 CFR 51.18(h) (1983) and 35 Ill. Adm. Code 203.150 which require a period of public review for permits for construction or modification of certain emission sources.~~:

a) To specify public participation procedures which must accompany the processing of permit applications for certain sources of air pollution by the Agency; and

b) To provide the public with an opportunity to comment on proposed permits for sources of air pollution where the permit applications are of public interest.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 252.102 Applicability

a) ~~These rules apply to all permit applications filed with the Illinois Environmental Protection Agency (Agency) for sources subject to 35 Ill. Adm. Code 203, "Major Stationary Sources Construction and Modification."~~ These rules apply to permit applications filed with the Agency for:

1) Permits pursuant to Major Stationary Sources Construction and Modification, 35 Ill. Adm. Code Part 203, for major new sources and major modifications;

2) Permits pursuant to the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, for construction of major new sources and major modifications;

3) Permits for the construction of sources or modifications which would constitute major new sources or major modifications, subject to public notice pursuant to Section 252.102(a)(1) or (2), if they were not accompanied by contemporaneous emissions decreases or if federally enforceable significant restrictions were not placed on the source or modification;

4) Permits for the use of Alternative Control Strategies pursuant to 35 Ill. Adm. Code 202;

5) Permits to operate sources pursuant to Section 39.5 of the Act (the Clean Air Act Permit Program (CAAPP)) and significant modifications of any permit issued thereunder;

6) Permits to operate sources which contain federally enforceable conditions including permits which exclude sources from the applicability of the permitting requirements described in subsections (a)(1), (a)(2), or (a)(5) of this Section; and

ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PROPOSED AMENDMENTS

7) Permits for the construction of emission units of public interest at a source, the criteria for which are outlined in subsection (b) of this Section.

8) Revisions to permits described in subsections (a)(1), (a)(2), (a)(3), (a)(4), (a)(5) and (a)(6) above (respectively PSD, NSR, synthetic minors, CAAPP, FESOP) as specified by applicable regulations. This Part shall apply to all revisions which: revise any standard established on a case-by-case basis; alter conditions imposed to meet requirements for emissions offsets; or relax testing, monitoring, recordkeeping, or reporting requirements.

b) The Director shall determine whether an emission unit is of public interest. In making the decision, the Director shall consider:

1) The type of permit for which the application is made;

2) The nature and amount of pollutants which will be emitted by the source;

3) Possible effects of the emissions on health and the environment;

4) The location of the source;

5) The interest in the source exhibited by the public, based on comments and inquiries received by the Agency;

6) Other factors which are distinctive to the source; and

7) The proposed action by the Agency.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 252.103 ~~Definitions~~ Application for a Prevention of Significant Deterioration Permit

~~Terms in these rules have the same meaning as defined in Section 3 of the Environmental Protection Act (Ill. Rev. Stat. 1983, ch. 111 1/2, par. 1003) and the Pollution Control Board Rules and Regulations on Air Pollution, 35 Ill. Adm. Code: Subtitle B, Chapter I.~~

a) Applicable procedures of the Consolidated Permit Regulations, 40 CFR 124, shall be followed for the issuance of permits pursuant to the federal rules for Prevention of Significant Deterioration of Air Quality (PSD) 40 CFR 52.21, for new major stationary sources and major modifications.

b) Applicable procedures of this Part shall also be followed for

issuance of such permits.

c) The following shall apply regarding denials of PSD permit applications:

1) The procedures of this Part shall also apply if the Agency proposes to deny an application for a PSD permit if the reasons for denial are those for which appeal to the Administrator of USEPA would be necessary. Such reasons may relate to requirements of the PSD rules which have been subject to interpretation by USEPA, including but not limited to the methodology for performing air quality analyses, the need for gathering site-specific ambient air quality data, the procedures for evaluating Best Available Control Technology (BACT), and the criteria used to establish BACT.

2) For those PSD permits for which public comment is required for a proposed denial of a permit pursuant to subsection (1) above, the following shall apply:

i) Where the procedures of this Part refer to a draft permit, they shall also apply to a draft permit denial letter; and

ii) Where the procedures of this Part refer to a notice of intent to issue, they shall also apply to a notice of intent to deny.

3) Following a public comment period on the proposed denial of the permit, if the Agency determines that a permit should be issued, a public comment period shall be held on the proposed issuance of the permit.

(Source: Section repealed, new Section added at _____ Ill. Reg. _____, effective _____)

Section 252.104 Definitions

Terms in these rules have the same meaning as defined in Section 3 of the Environmental Protection Act (Act) (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 1003) and the Pollution Control Board Rules and Regulations on Air Pollution, 35 Ill. Adm. Code: Subtitle B, Chapter I, as appropriate to the subject matter of the permit.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 252.105 Consolidation

The Agency may consolidate the public participation activities for two or more

permits subject to these rules when the operations to be permitted are similar, related, or in close geographical proximity, where practicable.

(Source: Added at _____ Ill. Reg. _____, effective _____)

SUBPART B: PROCEDURES FOR PUBLIC REVIEW

Section 252.201 Notice and Opportunity to Comment

a) The Agency shall issue a notice ~~of its intent to grant or deny a permit subject to these rules~~ for the issuance and renewal of any permit described in Section 252.102 of this Part, and permit actions described in Section 252.103 of this Part.

b) The notice shall be sent to:

1) The public, at least one time by display advertisement in a ~~general circulation~~ newspaper of general circulation in the area ~~of the source~~where the source is located;

2) ~~The Administrator of the U.S. Environmental Protection Agency (USEPA) by notifying the USEPA Region 5 office;~~ Local government air pollution control offices within Illinois that are in the area affected by the source;

3) ~~Local government air pollution control offices in the area affected by the source;~~ The chief executives of the municipality and county in which the source is to be located, including the mayor or president, clerk, county board chairman, county clerk, and state's attorney;

4) ~~The chief executives of the municipality and county in which the source is to be located;~~ Members of the General Assembly from the legislative district in which the source is located;

5) ~~Members of the General Assembly from the legislative district in which the source is to be located;~~ Any state whose air quality may be affected and which is contiguous to Illinois or which is within 50 miles of the source;

6) ~~In the case of a source whose emissions may affect an adjacent state, the bordering state or local air pollution control agency;~~ For a PSD source, other officials and agencies identified in 40 CFR 51.24(q)(iv) (1983);

7) The permit applicant; and

8) Persons on the public participation mailing list for the air

pollution control permit program.

c) The notice shall include:

1) The name and address of the applicant and the source;

2) The location of the ~~project~~; source if different from the applicant's address;

3) The activity or activities involved in the permit action;

4) For a proposed significant modification, a description of the change in the amount or character of the emissions which may result in the modification;

35) The preliminary decision of the Agency to grant ~~or deny~~ the permit;

46) ~~The location of the documents available for public review;~~ For the issuance of a PSD permit, the amount of increment consumed by the project;

57) ~~A request for comments on the Agency's draft permit or proposed denial;~~ The location of the documents available for public review;

68) ~~The date by which comments must be postmarked; and~~ A request for written comments on the Agency's draft proposed permit;

79) ~~Instructions on how to request a public hearing.~~ The date by which comments must be postmarked;

10) Instructions on how to request a public hearing if a decision to hold a hearing has not already been made pursuant to Section 252.205(a) or (b); and

11) The name, address, and telephone number of the Agency contact person from whom the public may obtain additional information.

(Agency Note: Material properly claimed as trade secret or confidential pursuant to Sections 7 and 7.1 of the Act and 2 Ill. Adm. Code Part 1827 will not be subject to public disclosure under this Part. An applicant claiming a trade secret shall provide, in addition to the complete application, a copy of the application for public notice in which the material claimed as trade secret has been deleted.)

d) The notice to the permit applicant shall also include the draft

permit and fact sheet or statement of basis required by Section 252.203.

~~1) The draft permit or denial letter and summary required by Section 252.202 and~~

~~2) Notice of an opportunity for hearing on Agency determinations of Best Available Control Technology (BACT) and Lowest Achievable Emission Rate (LAER) pursuant to Section 39(f) of the Environmental Protection Act (Ill. Rev. Stat. 1983, ch. 111 1/2, par. 1039(f)).~~

e) The notice shall provide for a 4530-day public comment period. The Agency may extend the comment period on written request if any applicable statutory period for the Agency decision, as prescribed in Section 39 of the Act, allows for an extension.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 252.202 Draft Permit and Denial Letter

a) ~~If the Agency proposes to issue the permit,~~ The Agency shall prepare for public review a draft permit with findings and proposed conditions.

~~b) If the Agency proposes to deny the permit, the Agency shall prepare a draft denial letter which states the Agency's findings as related to its basis for denial.~~

~~c) The Agency shall prepare a summary of its review of the application to accompany the draft permit or denial letter. The summary shall describe the basis of the Agency's decision to grant or deny the permit including an analysis of the project's effect on ambient air quality.~~

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 252.203 ~~Availability of Documents~~Fact Sheet and Statement of Basis

~~a) The following documents shall be made available for public inspection during the 30 day public comment period prior to the Agency's final action on a permit application:~~

~~1) A copy of the permit application;~~

~~2) The Agency draft permit or proposed denial letter;~~

~~3) The Agency summary; and~~

4) ~~The public notice.~~

b) ~~Copies of the documents shall be placed in:~~

1) ~~The Agency library, 2200 Churchill Road, Springfield;~~

2) ~~The Division of Air Pollution Control regional or district office closest to the location of the proposed source; and~~

3) ~~A library or other facility to which the public has access in the county where the source is to be located.~~

c) ~~All other documents associated with the permit application shall be available in accordance with procedures of the Agency and of the Pollution Control Board (35 Ill. Adm. Code 120) adopted pursuant to Sections 7 and 7.1 of the Act (Ill. Rev. Stat. 1983, ch. 111 1/2, pars. 1007 and 1007.1).~~

d) ~~A summary of comments received by the Agency and a copy of the Agency's final decision will be placed in the locations listed in Section 252.203(b).~~

a) The Agency shall prepare a fact sheet to accompany the draft permit for a major new source, major existing source, or major modification. The fact sheet shall describe the basis of the Agency's decision to grant the permit including an explanation of the source's effect on ambient air quality.

b) The Agency shall prepare a statement of basis for every draft permit for which a fact sheet is not prepared.

(Source: Section repealed, new Section added at ____ Ill. Reg. _____, effective _____)

Section 252.204 ~~Opportunity for Public Hearing~~Availability of Documents

a) ~~A public hearing shall be held on any permit application subject to these rules if the Agency receives a written request for a hearing from:~~

1) ~~Twenty-five persons either individually or in a petition;~~

2) ~~A member of the General Assembly representing the district in which the source is to be located;~~

3) ~~A chief executive officer from a county or municipality in which the source is to be located; or~~

4) ~~The applicant.~~

b) ~~The Director or designee shall order that a hearing be held on a permit application subject to these rules when the Agency has determined that a hearing would serve the interests of the public or of the Agency. In making this determination, the Agency will consider:~~

1) ~~The level of public interest as indicated by the inquiries and comments received by the Agency on the proposed permits; and~~

2) ~~The opportunity to increase public understanding of the project and of the Agency's proposed decision by means of public hearing.~~

c) ~~Except for hearings requested by the applicant on the Agency's determination of BACT or LAER, the hearings shall be conducted in accordance with the Agency's "Procedures for Permit Hearings," (35 Ill. Adm. Code 166).~~

d) ~~Hearings requested by the applicant on the Agency's determination of BACT or LAER shall be conducted in accordance with the Agency's "Rules of Practice and Procedure for Contested Case Hearings," (35 Ill. Adm. Code 168).~~

e) ~~Hearings requested by both the applicant and the public, on a permit which includes a determination of BACT or LAER by the Agency, shall be conducted in accordance with 35 Ill. Adm. Code 168.~~

a) The following documents shall be made available for public inspection during the public comment period a copy of:

1) The public notice;

2) The fact sheet or statement of basis;

3) The draft permit;

4) The permit application, including any compliance plans.

b) Copies of the documents shall be placed in:

1) The Division of Air Pollution Control's offices at 1340 North Ninth Street, Springfield, Illinois; and

2) The Division of Air Pollution Control's regional or district office closest to the location of the source;

c) All documents listed in subsection (a) above shall be available in accordance with procedures of the Agency and of the Pollution Control Board adopted pursuant to 35 Ill. Adm. Code 120, and Sections 7 and

7.1 of the Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 1007 and 1007.1).

(Source: Section repealed, new Section added at _____ Ill. Reg. _____, effective _____)

Section 252.205 Opportunity for Public Hearing

a) A public hearing shall be held on any action subject to these rules where applicable law or rule provides the applicant opportunity for hearing and the applicant makes a written request for a hearing.

b) The Director or his/her designee shall order that a hearing be held on a permit application subject to these rules when the Agency has determined that a hearing would serve the interests of the public or of the Agency. In making this determination, the Agency shall consider:

1) The level of public interest as indicated by the inquiries and comments received by the Agency on the draft permit;

2) The opportunity to increase public understanding of the project and of the Agency's proposed decision by means of public hearing;

3) Receipt by the Agency of a written request for a hearing citing material issues with respect to the terms and conditions of the draft permit from:

A) A significant number of persons, to be determined by the Director, either individually or in a petition;

B) A member of the General Assembly representing the district in which the source is located; or

C) A chief executive officer from a county or municipality in which the source is located as described in Section 252.201(b)(3).

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 252.206 Procedures for Public Hearings

a) Except as provided in subsection (b) below, hearings shall be conducted in accordance with the Agency's "Procedures for Permit and Closure Plan Hearings," (35 Ill. Adm. Code 166: Subpart A, Informational Permit and Closure Plan Hearings).

b) The following types of hearings shall be conducted in accordance

with the Agency's "Procedures for Permit and Closure Plan Hearings" (35 Ill. Adm. Code 166: Subpart B, Contested Case Permit Hearings):

1) Hearings requested by the applicant pursuant to Section 39(f)(3) of the Act on a proposed action which includes the Agency's determination with respect to BACT or LAER;

2) Hearings requested by the ACS permit applicant pursuant to Section 39.1(d) of the Act.

c) Notwithstanding subsection (b), persons requesting hearings subject to the Contested Case Permit Hearings (35 Ill. Adm. Code 166: Subpart B) may waive their rights to the procedures of the Contested Case Permit Hearings by notifying the hearing officer to that effect. Where persons waive their rights to Contested Case Permit Hearings, such hearings shall be held in accordance with the procedures of Informational Permit and Closure Plan Hearings (35 Ill. Adm. Code 166: Subpart A).

(Source: Added at _____ Ill. Reg. _____, effective _____)

SUBPART C: USEPA REVIEW AND OBJECTION PROCEDURES

Section 252.301 USEPA Review and Objection

a) Notice shall be provided to USEPA at the same time it is provided to the public pursuant to Section 252.201.

b) For draft CAAPP permits subject to review under Section 39.5 of the Act, following the public notice and comment period provided for by Section 252.201 of this Part, the Agency shall consider all comments received, and determine the contents of a proposed CAAPP permit. The proposed CAAPP permit shall be provided to USEPA for review and comment for a period of 45 days unless USEPA waives review.

c) If USEPA objects to the contents of a proposed CAAPP permit in writing and with a justification for its objections as provided in Title V of the Clean Air Act as amended (42 USC §7401 et seq.) and regulations promulgated thereunder the Agency shall respond to USEPA's objection. The Agency shall provide the applicant and any person who participated in the public comment process under this Part 10 days to submit written comments to the Agency contact person described at Section 252.201(c)(11) of this Part regarding any revisions which the Agency is proposing to make in response to USEPA's objections. The Agency may then revise and resubmit the proposed CAAPP permit without any further public participation within 90 days after the date of the objection.

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d) If USEPA does not object to the contents of a proposed CAAPP permit in writing and with a justification for its objections in accordance with procedures established under Title V of the Clean Air Act as amended (42 USC §7401 et seq.), the Agency shall issue the proposed permit as the CAAPP permit without further change.

e) If USEPA does not object in writing to issuance of a proposed CAAPP permit, any person may petition USEPA within 60 days after expiration of the 45-day review period to make such objection in accordance with applicable procedures established under Title V of the Clean Air Act.

f) If the CAAPP permit has not yet been issued and USEPA objects to the proposed permit as a result of a petition, the Agency shall not issue the permit until USEPA's objection has been resolved. The Agency shall provide for a 10-day comment period as set forth in subsection (c) of this Section. A petition does not, however, stay the effectiveness of a permit or its requirements if the permit was issued after expiration of the 45-day review period and prior to a USEPA objection.

g) If the Agency has issued a CAAPP permit after expiration of the 45-day review period and prior to receipt of a USEPA objection, the Agency may, after receiving an objection from USEPA, revise and resubmit the permit to USEPA after providing for 10-day comment period as set forth in subsection (c) of this Section. If the Agency fails to submit a revised permit in response to the objection, USEPA shall modify, terminate or revoke the permit, pursuant to the Clean Air Act as amended (42 USC § 7401 et seq.).

(Source: Added at _____ Ill. Reg. _____, effective _____)

SUBPART D: AGENCY ACTION

Section 252.401 Final Permit Action

After the close of the comment period including the period for USEPA's review of a proposed permit, the Agency shall take final permit action. The Agency shall notify the applicant and each person who has submitted written comments or requested notice of the final permit decision.

(Source: Added at _____ Ill. Reg. _____, effective _____)

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

1) Heading of the Part: Aid to Families With Dependent Children

2) Code Citation: 89 Ill. Adm. Code 112

3) Section Numbers: Proposed Action:

112.153 Amendment

4) Statutory Authority: Section 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 4-1 et seq. and 12-13)

5) Complete Description of the Subjects and Issues Involved: This rule change is being made to conform agency policy to federal regulations dated July 8, 1992. Nonexempt property is to be deferred for six consecutive months when the family makes a good faith effort to sell the property and agrees to repay the assistance received when the property is sold.

6) Will these proposed amendments replace emergency amendments currently in effect? No

7) Does this rulemaking contain an automatic repeal date? No

8) Do these proposed amendments contain incorporations by reference? No

9) Are there any other proposed amendments pending on this Part? Yes

Sections	Proposed Action	Illinois Register Citation
112.9	Amendment	September 4, 1992 (16 Ill. Reg. 13381)
112.70	Amendment	March 6, 1992 (16 Ill. Reg. 3335)
112.71	Amendment	March 6, 1992 (16 Ill. Reg. 3335)
112.72	Amendment	March 6, 1992 (16 Ill. Reg. 3335)
112.74	Amendment	March 6, 1992 (16 Ill. Reg. 3335)
112.78	Amendment	March 6, 1992 (16 Ill. Reg. 3335)
112.79	Amendment	March 6, 1992 (16 Ill. Reg. 3335)
112.82	Amendment	March 6, 1992 (16 Ill. Reg. 3335)
112.127	Amendment	August 28, 1992 (16 Ill. Reg. 13195)
112.154	Repeal	September 25, 1992 (16 Ill. Reg. 14522)
112.330	Amendment	October 9, 1992 (16 Ill. Reg. 15277)

10) Statement of Statewide Policy Objectives: These proposed amendments do not affect units of local government.

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

11) Time, Place, and Manner in which Interested Persons may comment on this proposed rulemaking: Any interested parties may submit comments, data, views, or arguments concerning this proposed rulemaking. All comments must be in writing and should be addressed to Judy Umunna, Bureau of Rules and Regulations, Illinois Department of Public Aid, 100 South Grand Ave. E., 3rd Floor, Springfield, Illinois 62762. The Department will consider all written comments it receives within 30 days after the publication of this notice.

12) Initial Regulatory Flexibility Analysis:

A) Date proposed rulemaking was submitted to the Business Assistance Office of the Department of Commerce and Community Affairs: Not applicable

B) Types of small businesses affected: None

C) Reporting, bookkeeping or other procedures required for compliance: None

D) Types of professional skills necessary for compliance: None

The full text of the Proposed Amendments begins on the next page:

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

TITLE 89: SOCIAL SERVICES
CHAPTER I: DEPARTMENT OF PUBLIC AID
SUBCHAPTER b: ASSISTANCE PROGRAMS

PART 112
AID TO FAMILIES WITH DEPENDENT CHILDREN

SUBPART A: GENERAL PROVISIONS

Section
112.1 Description of the Assistance Program
112.5 Incorporation By Reference

SUBPART B: NON-FINANCIAL FACTORS OF ELIGIBILITY

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112.8 Caretaker Relative
112.9 Client Cooperation
EMERGENCY
112.10 Citizenship
112.20 Residence
112.30 Age
112.40 Relationship
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112.52 Social Security Numbers
112.54 Assignment of Medical Support Rights
112.60 Lack of Parental Support or Care
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SUBPART C: PROJECT CHANCE

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112.70 Participation Requirements For Project Chance
112.71 Individuals Exempt From Project Chance
112.72 Project Chance Participation/Cooperation Requirements
112.73 Failure to Participate with the Work Incentive Demonstration Program (Renumbered)
112.74 Project Chance Initial Assessment Process/Development of an Employability Plan
112.76 Project Chance Orientation
112.77 Conciliation and Fair Hearings
112.78 Project Chance Components
112.79 Project Chance Sanctions
112.80 Good Cause for Failure to Comply With Project Chance Participation Requirements

112.81 Responsible Relative Eligibility For Project Chance
112.82 Project Chance Supportive Services
112.83 Young Parents Program
112.84 Work Experience Evaluation Project
112.85 Four Year College/Vocational Training Demonstration Project

SUBPART E: PROJECT ADVANCE

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112.86 Project Advance
112.87 Project Advance Experimental and Control Groups
112.88 Project Advance Participation Requirements of Experimental Group Members and Adjudicated Fathers
112.89 Project Advance Cooperation Requirements of Experimental Group Members and Adjudicated Fathers
112.90 Project Advance Sanctions
112.91 Good Cause for Failure to Comply with Project Advance
112.93 Individuals Exempt From Project Advance
112.95 Project Advance Supportive Services

SUBPART F: EXCHANGE PROGRAM

Section
112.98 Exchange Program

SUBPART G: FINANCIAL FACTORS OF ELIGIBILITY

Section
112.100 Unearned Income
112.101 Unearned Income of Stepparent or Parent
112.105 Budgeting Unearned Income
112.106 Budgeting Unearned Income of Applicants Employed On Date of Application And/Or Date Of Decision
112.107 Initial Receipt of Unearned Income
112.108 Termination of Unearned Income
112.110 Exempt Unearned Income
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112.120 Incentive Allowances
112.125 Unearned Income In-Kind
112.126 Earmarked Income
112.127 Lump Sum Payments
112.128 Protected Income
112.130 Earned Income
112.131 Earned Income Tax Credit
112.132 Budgeting Earned Income
112.133 Budgeting Earned Income of Applicants Employed On Date of Application And/Or Date Of Decision
112.134 Initial Employment

112.135 Budgeting Earned Income For Contractual Employees
112.136 Budgeting Earned Income For Non-Contractual School Employees
112.137 Termination of Employment
112.138 Transitional Payments (Repealed)
112.140 Exempt Earned Income
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112.142 Exclusion From Earned Income Exemption
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112.146 Earned Income From Roomer and Boarder
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112.148 Payments from the Illinois Department of Children and Family Services
112.149 Earned Income In-Kind
112.150 Assets
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112.152 Asset Disregards
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112.252 Payment Levels in AFDC Group I Counties
112.253 Payment Levels in AFDC Group II Counties
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112.300 Persons Who May Be Included in the Assistance Unit
112.301 Presumptive Eligibility
112.302 Monthly Reporting
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112.307 Responsibility of Sponsors of Aliens
112.308 Special Needs Authorizations
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112.315 Young Parent Program (Renumbered)
112.320 Redetermination of Eligibility
112.330 Twelve Month Extension of Medical Assistance Due to Increased Income from Employment

112.331 Four Month Extension of Medical Assistance Due to Child Support Collections
112.332 Extension of Medical Assistance Due to Loss of Earned Income Disregard (Repealed)
112.340 New Start Payments to Individuals Released from Department of Corrections Facilities

SUBPART J: CHILD CARE

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112.350 Child Care
112.352 Child Care Eligibility
112.354 Qualified Provider
112.356 Notification of Available Services
112.358 Participant Rights and Responsibilities
112.362 Additional Service to Secure or Maintain Child Care Arrangements
112.364 Rates of Payment for Child Care
112.366 Method of Providing Child Care

SUBPART K: TRANSITIONAL CHILD CARE

Section
112.400 Transitional Child Care Eligibility
112.404 Duration of Eligibility for Transitional Child Care
112.406 Loss of Eligibility for Transitional Child Care
112.408 Qualified Child Care Providers
112.410 Notification of Available Services
112.412 Participant Rights and Responsibilities
112.414 Child Care Overpayments and Recoveries
112.416 Fees for Service for Transitional Child Care
112.418 Rates of Payment for Transitional Child Care

AUTHORITY: Implementing Article IV and authorized by Section 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 4-1 et seq. and 12-13)

SOURCE: Filed effective December 30, 1977; peremptory amendment at 2 Ill. Reg. 17, p. 117, effective February 1, 1978; amended at 2 Ill. Reg. 31, p. 134, effective August 5, 1978; emergency amendment at 2 Ill. Reg. 37, p. 4, effective August 30, 1978, for a maximum of 150 days; peremptory amendment at 2 Ill. Reg. 46, p. 44, effective November 1, 1978; peremptory amendment at 2 Ill. Reg. 46, p. 56, effective November 1, 1978; emergency amendment at 3 Ill. Reg. 16, p. 41, effective April 9, 1979, for a maximum of 150 days; emergency amendment at 3 Ill. Reg. 28, p. 182, effective July 1, 1979, for a maximum of 150 days; amended at 3 Ill. Reg. 33, p. 399, effective August 18, 1979; amendment at 3 Ill. Reg. 33, p. 415, effective August 18, 1979; amended at 3 Ill. Reg. 38, p. 243, effective September 21, 1979, peremptory amendment at 3 Ill. Reg. 38, p. 321, effective September 7, 1979; amended at 3 Ill. Reg. 40,

p. 140, effective October 6, 1979; amended at 3 Ill. Reg. 46, p. 36, effective November 2, 1979; amended at 3 Ill. Reg. 47, p. 96, effective November 13, 1979; amended at 3 Ill. Reg. 48, p. 1, effective November 15, 1979; peremptory amendment at 4 Ill. Reg. 9, p. 259, effective February 22, 1980; amended at 4 Ill. Reg. 10, p. 258, effective February 25, 1980; amended at 4 Ill. Reg. 12, p. 551, effective March 10, 1980; amended at 4 Ill. Reg. 27, p. 387, effective June 24, 1980; emergency amendment at 4 Ill. Reg. 29, p. 294, effective July 8, 1980, for a maximum of 150 days; amended at 4 Ill. Reg. 37, p. 797, effective September 2, 1980; amended at 4 Ill. Reg. 37, p. 800, effective September 2, 1980; amended at 4 Ill. Reg. 45, p. 134, effective October 27, 1980; amended at 5 Ill. Reg. 766, effective January 2, 1981; amended at 5 Ill. Reg. 1134, effective January 26, 1981; peremptory amendment at 5 Ill. Reg. 5722, effective June 1, 1981; amended at 5 Ill. Reg. 7071, effective June 23, 1981; amended at 5 Ill. Reg. 7104, effective June 23, 1981; amended at 5 Ill. Reg. 8041, effective July 27, 1981; amended at 5 Ill. Reg. 8052, effective July 24, 1981; peremptory amendment at 5 Ill. Reg. 8106, effective August 1, 1981; peremptory amendment at 5 Ill. Reg. 10062, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10079, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10095, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10113, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10124, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10131, effective October 1, 1981; amended at 5 Ill. Reg. 10730, effective October 1, 1981; amended at 5 Ill. Reg. 10733, effective October 1, 1981; amended at 5 Ill. Reg. 10760, effective October 1, 1981; amended at 5 Ill. Reg. 10767, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 11647, effective October 16, 1981; peremptory amendment at 6 Ill. Reg. 611, effective January 1, 1982, amended at 6 Ill. Reg. 1216, effective January 14, 1982; emergency amendment at 6 Ill. Reg. 2447, effective March 1, 1982, for a maximum of 150 days; peremptory amendment at 6 Ill. Reg. 2452, effective February 11, 1982; peremptory amendment at 6 Ill. Reg. 6475, effective May 18, 1982; peremptory amendment at 6 Ill. Reg. 6912, effective May 20, 1982; emergency amendment at 6 Ill. Reg. 7299, effective June 2, 1982, for a maximum of 150 days; amended at 6 Ill. Reg. 8115, effective July 1, 1982; amended at 6 Ill. Reg. 8142, effective July 1, 1982; amended at 6 Ill. Reg. 8159, effective July 1, 1982; amended at 6 Ill. Reg. 10970, effective August 26, 1982; amended at 6 Ill. Reg. 11921, effective September 21, 1982; amended at 6 Ill. Reg. 12293, effective October 1, 1982; amended at 6 Ill. Reg. 12318, effective October 1, 1982; amended at 6 Ill. Reg. 13754, effective November 1, 1982; rules repealed, new rules adopted and codified at 7 Ill. Reg. 907, effective January 11, 1983; rules repealed and new rules adopted and codified at 7 Ill. Reg. 2720, effective February 28, 1983; amended (by adding Sections being codified with no substantive change) at 7 Ill. Reg. 5195; amended at 7 Ill. Reg. 11284, effective August 26, 1983; amended at 7 Ill. Reg. 13920, effective October 7, 1983; amended at 7 Ill. Reg. 15690, effective November 9, 1983; amended (by adding sections being codified with no substantive change) at 7 Ill. Reg. 16105; amended at 7 Ill. Reg. 17344, effective December 21, 1983; emergency amendment at 8 Ill. Reg. 569, effective January

1, 1984, for a maximum of 150 days; amended at 8 Ill. Reg. 4176, effective March 19, 1984; amended at 8 Ill. Reg. 5207, effective April 9, 1984; amended at 8 Ill. Reg. 7226, effective May 16, 1984; amended at 8 Ill. Reg. 11391, effective June 27, 1984; amended at 8 Ill. Reg. 12333, effective June 29, 1984; amended (by adding sections being codified with no substantive change) at 8 Ill. Reg. 17894; peremptory amendment at 8 Ill. Reg. 18127, effective October 1, 1984; peremptory amendment at 8 Ill. Reg. 19889, effective October 1, 1984; amended at 8 Ill. Reg. 19983, effective October 3, 1984; emergency amendment at 8 Ill. Reg. 21666, effective October 19, 1984 for a maximum of 150 days; amended at 8 Ill. Reg. 21621, effective October 23, 1984; amended at 8 Ill. Reg. 25023, effective December 19, 1984; amended at 9 Ill. Reg. 282, effective January 1, 1985; amended at 9 Ill. Reg. 4062, effective March 15, 1985; amended at 9 Ill. Reg. 8155, effective May 17, 1985; emergency amendment at 9 Ill. Reg. 10094, effective June 19, 1985, for a maximum of 150 days; amended at 9 Ill. Reg. 11317, effective July 5, 1985; amended at 9 Ill. Reg. 12795, effective August 9, 1985; amended at 9 Ill. Reg. 15887, effective October 4, 1985; amended at 9 Ill. Reg. 16277, effective October 11, 1985; amended at 9 Ill. Reg. 17827 effective November 18, 1985; emergency amendment at 10 Ill. Reg. 354, effective January 1, 1986, for a maximum of 150 days; amended at 10 Ill. Reg. 1172, effective January 10, 1986; amended at 10 Ill. Reg. 3641, effective January 30, 1986; amended at 10 Ill. Reg. 4885, effective March 7, 1986; amended at 10 Ill. Reg. 8118, effective May 1, 1986; amended at 10 Ill. Reg. 10628, effective June, 1, 1986; amended at 10 Ill. Reg. 11017, effective June 6, 1986; Sections 112.78 through 112.86 and 112.88 recodified to 89 Ill. Adm. Code 160 at 10 Ill. Reg. 11928; emergency amendment at 10 Ill. Reg. 12107, effective July 1, 1986, for a maximum of 150 days; amended at 10 Ill. Reg. 12650, effective July 14, 1986; amended at 10 Ill. Reg. 14681, effective August 29, 1986; amended at 10 Ill. Reg. 15101, effective September 5, 1986; amended at 10 Ill. Reg. 15621, effective September 19, 1986; amended at 10 Ill. Reg. 21860, effective December 12, 1986; amended at 11 Ill. Reg. 2280, effective January 16, 1987; amended at 11 Ill. Reg. 3140, effective January 30, 1987; amended at 11 Ill. Reg. 4682, effective March 6, 1987; amended at 11 Ill. Reg. 5223, effective March 11, 1987; amended at 11 Ill. Reg. 6228, effective March 20, 1987; amended at 11 Ill. Reg. 9927, effective May 15, 1987; amended at 11 Ill. Reg. 12003, effective November 1, 1987; emergency amendment at 11 Ill. Reg. 12432, effective July 10, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 12908, effective July 30, 1987; emergency amendment at 11 Ill. Reg. 12935, effective August 1, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 13625, effective August 1, 1987; amended at 11 Ill. Reg. 14755, effective August 26, 1987; amended at 11 Ill. Reg. 18679, effective November 1, 1987; emergency amendment at 11 Ill. Reg. 18781, effective November 1, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 20114, effective December 4, 1987; Sections 112.90 and 112.95 recodified to Sections 112.52 and 112.54 at 11 Ill. Reg. 20610; amended at 11 Ill. Reg. 20889, effective December 14, 1987; amended at 12 Ill. Reg. 844, effective January 1, 1988; emergency amendment at 12 Ill. Reg. 1929, effective January 1, 1988, for a maximum of 150 days; amended at 12 Ill. Reg. 2126, effective January 12, 1988; SUBPARTS C, D and E recodified to SUBPARTS G, H

and I at 12 Ill. Reg. 2136; amended at 12 Ill. Reg. 3487, effective January 22, 1988; amended at 12 Ill. Reg. 6159, effective March 18, 1988; amended at 12 Ill. Reg. 6694, effective March 22, 1988; amended at 12 Ill. Reg. 7336, effective May 1, 1988; amended at 12 Ill. Reg. 7673, effective April 20, 1988; amended at 12 Ill. Reg. 9032, effective May 20, 1988; amended at 12 Ill. Reg. 10481, effective June 13, 1988; amended at 12 Ill. Reg. 14172, effective August 30, 1988; amended at 12 Ill. Reg. 14669, effective September 16, 1988; amended at 13 Ill. Reg. 70, effective January 1, 1989; amended at 13 Ill. Reg. 6017, effective April 14, 1989; amended at 13 Ill. Reg. 8567, effective May 22, 1989; amended at 13 Ill. Reg. 16006, effective October 6, 1989; emergency amendment at 13 Ill. Reg. 16142, effective October 2, 1989, for a maximum of 150 days; emergency expired March 1, 1990; amended at 14 Ill. Reg. 705, effective January 1, 1990; amended at 14 Ill. Reg. 3170, effective February 13, 1990; amended at 14 Ill. Reg. 3575, effective February 23, 1990; amended at 14 Ill. Reg. 6306, effective April 16, 1990; amended at 14 Ill. Reg. 10379, effective June 20, 1990; amended at 14 Ill. Reg. 13652, effective August 10, 1990; amended at 14 Ill. Reg. 14140, effective August 17, 1990; amended at 14 Ill. Reg. 16937, effective September 30, 1990; emergency amendment at 15 Ill. Reg. 338, effective January 1, 1991, for a maximum of 150 days; emergency amendment at 15 Ill. Reg. 2862, effective February 4, 1991, for a maximum of 150 days; emergency expired July 4, 1991; amended at 15 Ill. Reg. 5275, effective April 1, 1991; amended at 15 Ill. Reg. 5684, effective April 10, 1991; amended at 15 Ill. Reg. 11127, effective July 19, 1991; amended at 15 Ill. Reg. 11447, effective July 25, 1991; amended at 15 Ill. Reg. 14227, effective September 30, 1991; amended at 15 Ill. Reg. 17308, effective November 18, 1991; amended at 16 Ill. Reg. 9972, effective June 15, 1992; emergency amendment at 16 Ill. Reg. 11652, effective July 1, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 11550, effective July 15, 1992; emergency amendment at 16 Ill. Reg. 13629, effective September 1, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 17724, effective November 9, 1992; amended at 16 Ill. Reg. _____, effective _____.

NOTE: CAPITALIZATION DENOTES STATUTORY LANGUAGE.

SUBPART G: FINANCIAL FACTORS OF ELIGIBILITY

Section 112.153 Deferral of Consideration of Assets

Non-exempt real property is to be deferred for six consecutive months provided

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

Section 112.153 (continued)

the family makes a good faith effort to sell the property and agrees to use the proceeds to repay the amount of assistance received during such period that would not have been paid had the property been sold at the beginning of the period. ~~the Department the AFDC benefits received for the period covered by the AFDC payments any remaining proceeds are considered against the asset standard.~~

(Source: Amended at 16 Ill. Reg. _____, effective _____)

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

1) Heading of the Part: General Assistance

2) Code Citation: 89 Ill. Adm. Code 114

3) Section Numbers: Proposed Action:

114.252 Amendment

4) Statutory Authority: Sections 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 6-1 et seq. and 12-13)

5) Complete Description of the Subjects and Issues Involved: This rule implements a law change requiring that the General Assistance asset disregard for homeless individuals be the same as the AFDC asset disregard.

6) Will these proposed amendments replace emergency amendments currently in effect? No

7) Does this rulemaking contain an automatic repeal date? No

8) Do these proposed amendments contain incorporations by reference? No

9) Are there any other proposed amendments pending on this Part? Yes

Sections	Proposed Action	Illinois Register Citation
114.1	Amendment	September 11, 1992 (16 Ill. Reg. 13766)
114.2	Amendment	September 11, 1992 (16 Ill. Reg. 13766)
114.9	Amendment	September 4, 1992 (16 Ill. Reg. 13395)
114.120	Amendment	October 16, 1992 (16 Ill. Reg. 15810)
114.121	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.124	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.125	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.126	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.127	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.128	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.129	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.130	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.135	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.270	Repeal	October 2, 1992 (16 Ill. Reg. 15008)
114.351	Amendment	September 11, 1992 (16 Ill. Reg. 13766)
114.352	Amendment	September 11, 1992 (16 Ill. Reg. 13766)
114.353	Amendment	September 11, 1992 (16 Ill. Reg. 13766)
114.406	New Section	November 20, 1992 (16 Ill. Reg. 17459)
114.420	Amendment	October 2, 1992 (16 Ill. Reg. 15008)
114.430	Amendment	October 9, 1992 (16 Ill. Reg. 15287)
114.440	New Section	September 25, 1992 (16 Ill. Reg. 14538)

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

10) Statement of Statewide Policy Objectives: These proposed amendments do not affect units of local government.

11) Time, Place, and Manner in which Interested Persons may comment on this proposed rulemaking: Any interested parties may submit comments, data, views, or arguments concerning this proposed rulemaking. All comments must be in writing and should be addressed to Judy Umunna, Bureau of Rules and Regulations, Illinois Department of Public Aid, 100 South Grand Ave. E., 3rd Floor, Springfield, Illinois 62762. The Department will consider all written comments it receives within 30 days after the publication of this notice.

12) Initial Regulatory Flexibility Analysis:

A) Date proposed rulemaking was submitted to the Business Assistance Office of the Department of Commerce and Community Affairs: Not applicable

B) Types of small businesses affected: None

C) Reporting, bookkeeping or other procedures required for compliance: None

D) Types of professional skills necessary for compliance: None

The full text of the Proposed Amendments begins on the next page:

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

TITLE 89: SOCIAL SERVICES
CHAPTER I: DEPARTMENT OF PUBLIC AID
SUBCHAPTER b: ASSISTANCE PROGRAMS

PART 114
GENERAL ASSISTANCE

SUBPART A: GENERAL PROVISIONS

Section
114.1 Description of the Assistance Program
EMERGENCY
114.2 Determination of Not Employable
EMERGENCY
114.5 Incorporation By Reference

SUBPART B: NON-FINANCIAL FACTORS OF ELIGIBILITY

Section
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114.10 Citizenship
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114.122 Advocacy Program for Persons Who Have Applied for Supplemental Security Income (SSI) Under Title XVI of the Social Security Act (Repealed)
114.123 Persons in Need of Work Rehabilitative Services (WRS) to Become Employable (Repealed)
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114.500 Transitional Child Care Eligibility
114.504 Duration of Eligibility for Transitional Child Care
114.506 Loss of Eligibility for Transitional Child Care
114.508 Qualified Provider
114.510 Notification of Available Services
114.512 Participant Rights and Responsibilities
114.514 Child Care Overpayments and Recoveries
114.516 Fees for Service for Transitional Child Care
114.518 Rates of Payment for Transitional Child Care

AUTHORITY: Implementing Article VI and authorized by Section 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 6-1 et seq. and 12-13)

SOURCE: Filed effective December 30, 1977; peremptory amendment at 2 Ill. Reg. 17, p. 117, effective February 1, 1978; amended at 2 Ill. Reg. 31, p. 134, effective August 5, 1978; emergency amendment at 2 Ill. Reg. 37, p. 4, effective August 30, 1978, for a maximum of 150 days; peremptory amendment at 2 Ill. Reg. 46, p. 44, effective November 1, 1978; peremptory amendment at 2 Ill. Reg. 46, p. 56, effective November 1, 1978; emergency amendment at 3 Ill. Reg. 16, p. 41, effective April 9, 1979, for a maximum of 150 days; emergency amendment at 3 Ill. Reg. 28, p. 182, effective July 1, 1979, for a maximum of 150 days; amended at 3 Ill. Reg. 33, p. 399, effective August 18, 1979; amendment at 3 Ill. Reg. 33, p. 415, effective August 18, 1979; amended at 3 Ill. Reg. 38, p. 243, effective September 21, 1979; peremptory amendment at 3 Ill. Reg. 38, p. 321, effective September 7, 1979; amended at 3 Ill. Reg. 40, p. 140, effective October 6, 1979; amended at 3 Ill. Reg. 46, p. 36, effective November 2, 1979; amended at 3 Ill. Reg. 47, p. 96, effective November 13,

1979; amended at 3 Ill. Reg. 48, p. 1, effective November 15, 1979; peremptory amendment at 4 Ill. Reg. 9, p. 259, effective February 22, 1980; amended at 4 Ill. Reg. 10, p. 258, effective February 25, 1980; amended at 4 Ill. Reg. 12, p. 551, effective March 10, 1980; amended at 4 Ill. Reg. 27, p. 387, effective June 24, 1980; emergency amendment at 4 Ill. Reg. 29, p. 294, effective July 8, 1980, for a maximum of 150 days; amended at 4 Ill. Reg. 37, p. 797, effective September 2, 1980; amended at 4 Ill. Reg. 37, p. 800, effective September 2, 1980; amended at 4 Ill. Reg. 45, p. 134, effective October 27, 1980; amended at 5 Ill. Reg. 766, effective January 2, 1981; amended at 5 Ill. Reg. 1134, effective January 26, 1981; peremptory amendment at 5 Ill. Reg. 5722, effective June 1, 1981; amended at 5 Ill. Reg. 7071, effective June 23, 1981; amended at 5 Ill. Reg. 7104, effective June 23, 1981; amended at 5 Ill. Reg. 8041, effective July 27, 1981; amended at 5 Ill. Reg. 8052, effective July 24, 1981; peremptory amendment at 5 Ill. Reg. 8106, effective August 1, 1981; peremptory amendment at 5 Ill. Reg. 10062, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10079, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10095, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10113, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10124, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10131, effective October 1, 1981; amended at 5 Ill. Reg. 10730, effective October 1, 1981; amended at 5 Ill. Reg. 10733, effective October 1, 1981; amended at 5 Ill. Reg. 10760, effective October 1, 1981; amended at 5 Ill. Reg. 10767, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 11647, effective October 16, 1981; peremptory amendment at 6 Ill. Reg. 611, effective January 1, 1982; amended at 6 Ill. Reg. 1216, effective January 14, 1982; emergency amendment at 6 Ill. Reg. 2447, effective March 1, 1982, for a maximum of 150 days; peremptory amendment at 6 Ill. Reg. 2452, effective February 11, 1982; peremptory amendment at 6 Ill. Reg. 6475, effective May 18, 1982; peremptory amendment at 6 Ill. Reg. 6912, effective May 20, 1982; emergency amendment at 6 Ill. Reg. 7299, effective June 2, 1982, for a maximum of 150 days; amended at 6 Ill. Reg. 8115, effective July 1, 1982; amended at 6 Ill. Reg. 8142, effective July 1, 1982; amended at 6 Ill. Reg. 8159, effective July 1, 1982; amended at 6 Ill. Reg. 10970, effective August 26, 1982; amended at 6 Ill. Reg. 11921, effective September 21, 1982; amended at 6 Ill. Reg. 12293, effective October 1, 1982; amended at 6 Ill. Reg. 12318, effective October 1, 1982; amended at 6 Ill. Reg. 13754, effective November 1, 1982; rules repealed, new rules adopted and codified at 7 Ill. Reg. 907, effective January 7, 1983; amended (by adding Sections being codified with no substantive change) at 7 Ill. Reg. 5195; amended at 7 Ill. Reg. 9909, effective August 5, 1983; amended (by adding section being codified with no substantive change) at 7 Ill. Reg. 14747; amended (by adding section being codified with no substantive change) at 7 Ill. Reg. 16107; amended at 7 Ill. Reg. 16408, effective November 30, 1983; amended at 7 Ill. Reg. 16652, effective December 1, 1983; amended at 8 Ill. Reg. 243, effective December 27, 1983; amended at 8 Ill. Reg. 5233, effective April 9, 1984; amended at 8 Ill. Reg. 6764, effective April 27, 1984; amended at 8 Ill. Reg. 11435, effective June 27, 1984; amended at 8 Ill. Reg. 13319, effective July 16, 1984; amended at 8 Ill. Reg. 16237, effective August 24,

1984; amended (by adding sections being codified with no substantive change) at 8 Ill. Reg. 17896; amended at 9 Ill. Reg. 314, effective January 1, 1985; emergency amendment at 9 Ill. Reg. 823, effective January 3, 1985, for a maximum of 150 days; amended at 9 Ill. Reg. 9557, effective June 5, 1985; amended at 9 Ill. Reg. 10764, effective July 5, 1985; amended at 9 Ill. Reg. 15800, effective October 16, 1985; amended at 10 Ill. Reg. 1924, effective January 17, 1986; amended at 10 Ill. Reg. 3660, effective January 30, 1986; emergency amendment at 10 Ill. Reg. 4646, effective February 3, 1986, for a maximum of 150 days; amended at 10 Ill. Reg. 4896, effective March 7, 1986; amended at 10 Ill. Reg. 10681, effective June 3, 1986; amended at 10 Ill. Reg. 11041, effective June 5, 1986; amended at 10 Ill. Reg. 12662, effective July 14, 1986; amended at 10 Ill. Reg. 15118, effective September 5, 1986; amended at 10 Ill. Reg. 15640, effective September 19, 1986; amended at 10 Ill. Reg. 19079, effective October 24, 1986; amended at 11 Ill. Reg. 2307, effective January 16, 1987; amended at 11 Ill. Reg. 5297, effective March 11, 1987; amended at 11 Ill. Reg. 6238, effective March 20, 1987; emergency amendment at 11 Ill. Reg. 12449, effective July 10, 1987, for a maximum of 150 days; emergency amendment at 11 Ill. Reg. 12948, effective August 1, 1987, for a maximum of 150 days; emergency amendment at 11 Ill. Reg. 18311, effective November 1, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 18689, effective November 1, 1987; emergency amendment at 11 Ill. Reg. 18791, effective November 1, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 20129, effective December 4, 1987; amended at 11 Ill. Reg. 20889, effective December 14, 1987; amended at 12 Ill. Reg. 889, effective January 1, 1988; SUBPARTS C, D and E recodified to SUBPARTS E, F and G at 12 Ill. Reg. 2147; Section 114.110 recodified to Section 114.52 at 12 Ill. Reg. 2984; amended at 12 Ill. Reg. 3505, effective January 22, 1988; amended at 12 Ill. Reg. 6170, effective March 18, 1988; amended at 12 Ill. Reg. 6719, effective March 22, 1988; amended at 12 Ill. Reg. 9108, effective May 20, 1988; amended at 12 Ill. Reg. 9699, effective May 24, 1988; amended at 12 Ill. Reg. 9940, effective May 31, 1988; amended at 12 Ill. Reg. 11474, effective June 30, 1988; amended at 12 Ill. Reg. 14255, effective August 30, 1988; emergency amendment at 12 Ill. Reg. 14364, effective September 1, 1988, for a maximum of 150 days; amended at 12 Ill. Reg. 16729, effective September 30, 1988; amended at 12 Ill. Reg. 20171, effective November 28, 1988; amended at 13 Ill. Reg. 89, effective January 1, 1989; amended at 13 Ill. Reg. 1546, effective January 20, 1989; amended at 13 Ill. Reg. 3900, effective March 10, 1989; amended at 13 Ill. Reg. 8580, effective May 20, 1989; emergency amendment at 13 Ill. Reg. 16169, effective October 2, 1989, for a maximum of 150 days; emergency expired March 1, 1990; amended at 13 Ill. Reg. 16015, effective October 6, 1989; amended at 14 Ill. Reg. 746, effective January 1, 1990; amended at 14 Ill. Reg. 3640, effective February 23, 1990; amended at 14 Ill. Reg. 6360, effective April 16, 1990; amended at 14 Ill. Reg. 10929, effective June 20, 1990; amended at 14 Ill. Reg. 13215, effective August 6, 1990; amended at 14 Ill. Reg. 13777, effective August 10, 1990; amended at 14 Ill. Reg. 14162, effective August 17, 1990; amended at 14 Ill. Reg. 17111, effective September 30, 1990; amended at 15 Ill. Reg. 288, effective January 1, 1991; amended at 15 Ill. Reg. 5710, effective April 10, 1991; amended at 15 Ill. Reg. 11164, effective August 1,

1991; emergency amendment at 15 Ill. Reg. 15144, effective October 7, 1991, for a maximum of 150 days; amended at 16 Ill. Reg. 3512, effective February 20, 1992; emergency amendment at 16 Ill. Reg. 4540, effective March 10, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 11662, effective July 1, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 13297, effective August 15, 1992; emergency amendment at 16 Ill. Reg. 13651, effective September 1, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 14769, effective September 15, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 16276, effective October 1, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 17772, effective November 13, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. _____, effective _____.

NOTE: CAPITALIZATION DENOTES STATUTORY LANGUAGE

SUBPART E: FINANCIAL FACTORS OF ELIGIBILITY

Section 114.252 Asset Disregards

a) In addition to the exempt assets listed in Section 114.251, the cash value of assets shall be disregarded as follows: All assets or the cash value of assets other than those listed in Section 114.251 are non-exempt and must be considered in determining initial or continue eligibility for assistance and level of assistance payment. If the client has non-exempt assets in excess of one month's needs for the assistance unit, the client is not eligibile for GA if the client is not considered homeless. If the client is considered homeless, the client's asset disregard is the same as the AFDC asset disregard contained in 89 Ill. Adm. Code 112.152.

b) For purposes of this Section, an individual is considered homeless if:

1) The individual lacks a fixed, regular, and adequate nighttime residence; or

2) The individual has a primary nighttime residence that is any of the following:

A) A supervised publicly or privately operated shelter designed to provide temporary living accommodations (including temporary shelters, halfway houses, and transitional housing for individuals with mental illness).

DEPARTMENT OF PUBLIC AID

NOTICE OF PROPOSED AMENDMENTS

Section 114.252(b)(2) (continued)

B) An institution that provides a temporary residence for individuals intended to be institutionalized.

C) A public or private place not designed for, or ordinarily used as, a regular sleeping accommodation for human beings.

(Source: Amended at 16 Ill. Reg. _____, effective _____)

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

1) Heading of the Part:

Illinois Plumbing Code

2) Code Citation:

77 Ill. Adm. Code 890

3)

Section Numbers:	Proposed Action:
890.110	Repealer
890.120	Repealer
890.130	Repealer
890.210	Repealer
890.220	Repealer
890.230	Repealer
890.240	Repealer
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NOTICE OF PROPOSED REPEALER

890.560	Repealer
890.610	Repealer
890.620	Repealer
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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

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NOTICE OF PROPOSED REPEALER

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890.1800	Repealer
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890.2100	Repealer
890.2110	Repealer
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890.2240	Repealer
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890.3010	Repealer
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NOTICE OF PROPOSED REPEALER

890.4000	Repealer
890.Appendix A	Repealer
Illustration A	Repealer
890.Appendix B	Repealer
890.Appendix C	Repealer
890.Appendix D	Repealer
890.Appendix E	Repealer
890.Exhibit A	Repealer
Illustration A	Repealer
Illustration B	Repealer
Illustration C	Repealer
Illustration D	Repealer
Illustration E	Repealer
Illustration F	Repealer
Illustration G	Repealer
Illustration H	Repealer
Illustration I	Repealer
Illustration J	Repealer
Illustration K	Repealer
Illustration L	Repealer
Illustration M	Repealer
Illustration N	Repealer
Illustration O	Repealer
Illustration P	Repealer
Illustration Q	Repealer
Illustration R	Repealer
Illustration S	Repealer
Illustration T	Repealer
Illustration U	Repealer
Illustration V	Repealer
Illustration W	Repealer
Illustration X	Repealer
890.Exhibit B	Repealer
Illustration A	Repealer
Illustration B	Repealer
Illustration C	Repealer
Illustration D	Repealer
Illustration E	Repealer
Illustration F	Repealer
Illustration G	Repealer
Illustration H	Repealer
Illustration I	Repealer
Illustration J	Repealer
890.Exhibit C	Repealer

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NOTICE OF PROPOSED REPEALER

Illustration A	Repealer
Illustration B	Repealer
Illustration C	Repealer
Illustration D	Repealer
Illustration E	Repealer
Illustration F	Repealer
Illustration G	Repealer
Illustration H	Repealer
Illustration I	Repealer
Illustration J	Repealer
Illustration K	Repealer
Illustration L	Repealer
Illustration M	Repealer
Illustration N	Repealer
890.Exhibit D	Repealer
Illustration A	Repealer
Illustration B	Repealer
Illustration C	Repealer
Illustration D	Repealer
Illustration E	Repealer
Illustration F	Repealer
Illustration G	Repealer
Illustration H	Repealer
Illustration I	Repealer
Illustration J	Repealer
Illustration K	Repealer
Illustration L	Repealer
Illustration M	Repealer
Illustration N	Repealer
Illustration O	Repealer
Illustration P	Repealer
890.Exhibit E	Repealer
Illustration A	Repealer
Illustration B	Repealer
Illustration C	Repealer
Illustration D	Repealer
Illustration E	Repealer
Illustration F	Repealer
Illustration G	Repealer
Illustration H	Repealer
Illustration I	Repealer
Illustration J	Repealer
Illustration K	Repealer
Illustration L	Repealer

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

Illustration M	Repealer
Illustration N	Repealer
Illustration O	Repealer
Illustration P	Repealer
Illustration Q	Repealer
Illustration R	Repealer
Illustration S	Repealer
Illustration T	Repealer
890.Exhibit F	Repealer
Illustration A	Repealer
Illustration B	Repealer
Illustration C	Repealer
Illustration D	Repealer
Illustration E	Repealer
Illustration F	Repealer
Illustration G	Repealer
Illustration H	Repealer
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Illustration M	Repealer
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Illustration R	Repealer
Illustration S	Repealer
Illustration T	Repealer
Illustration U	Repealer
Illustration V	Repealer
Illustration W	Repealer
Illustration X	Repealer
Illustration Y	Repealer
Illustration Z	Repealer
Illustration AA	Repealer
Illustration BB	Repealer
Illustration CC	Repealer
Illustration DD	Repealer
890.Exhibit G	Repealer
Table A	Repealer
Table B	Repealer
Table C	Repealer
Table D	Repealer

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

Table E	Repealer
Table F	Repealer
Table G	Repealer
Table H	Repealer
Table I	Repealer
Table J	Repealer
Table K	Repealer
Table L	Repealer
Table M	Repealer
Table N	Repealer
Table O	Repealer
Table P	Repealer
Table Q	Repealer

4) Statutory Authority:

Implementing and authorized by Section 35 of the Illinois Plumbing License Law (Ill. Rev. Stat. 1991, ch. 111, par. 1133)

5) A Complete Description of the Subjects and Issues Involved:

This rulemaking repeals the current Illinois Plumbing Code and will be replaced by a comprehensive new rulemaking which is proposed in this issue of the Illinois Register.

6) Will this Rulemaking Replace an Emergency Rule Currently in Effect?

Yes __ No X

7) Does this Rulemaking Contain an Automatic Repeal Date? Yes __ No X

If "yes," please specify the date: _____

8) Does this Rulemaking Contain Any Incorporations By Reference?

Yes __ No X

If "yes," please specify type: 6.02(a)__ or 6.02(b)__

9) Are there any other Proposed Amendments Pending on this Part?

Yes __ No X

If Yes:

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

Section Numbers	Proposed Action	Ill. Reg. Citation

10) Statement of Statewide Policy Objectives:

New rulemaking will add measures to insure clarification of rules, references made clear and tables are simplified to enable user to identify with intent of the code. This rulemaking will not create or expand a mandate on units of local government.

11) Time, Place, and Manner in which Interested Persons May Comment on this Rulemaking:

Interested persons may present their comments concerning these rules by writing to Gail M. DeVito, Division of Governmental Affairs, Illinois Department of Public Health, 525 West Jefferson, Second Floor, Springfield, Illinois 62761, within 45 days after this issue of the Illinois Register.

A public hearing to gather public comments on the proposed rules will be held on December 18, 1992, 10:30 a.m. - 12:30 p.m., Illinois Department of Public Health, 1st Floor Training Room, 525 West Jefferson, Springfield, Illinois 62761.

Persons presenting oral testimony should provide to the hearing officer at the time of the public hearing a written copy of such testimony. No oral testimony will be accepted without a written copy of the testimony being provided.

These rules may have an impact on small businesses. In accordance with Sections 3.01 and 4.03 of the Illinois Administrative Procedure Act, any small business may present their comments in writing to Gail M. DeVito at the above address.

Any small business (as defined in Section 3.10 of the Illinois Administrative Procedure Act) commenting on these rules shall indicate their status as such, in writing, in their comments.

12) Initial Regulatory Flexibility Analysis:

A) Date Rulemaking was Submitted to the Business Assistance Office of the Department of Commerce and Community Affairs:

B) Type of Small Businesses Affected:

Plumbers and Plumbing Contractors.

C) Reporting, Bookkeeping or Other Procedures Required for Compliance:

No new procedures required.

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D) Types of Professional Skills Necessary for Compliance:

Technical.

The full text of the Proposed Rules begins on the next page:

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TITLE 77: PUBLIC HEALTH
CHAPTER I: DEPARTMENT OF PUBLIC HEALTH
SUBCHAPTER r: WATER AND SEWAGE

PART 890
ILLINOIS PLUMBING CODE

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890.110 General
890.120 Definitions
890.130 Incorporation by Reference

SUBPART B: GENERAL REGULATIONS

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890.210 Conformance with Code
890.220 Grade of Horizontal Piping
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890.280 Structural Safety
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AUTHORITY: Implementing and authorized by Section 35 of the Illinois Plumbing License Law (Ill. Rev. Stat. 1987, ch. 111, par. 1133).

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SOURCE: Filed August 20, 1969; amended at 7 Ill. Reg. 4245, effective March 24, 1983; emergency amendment at 7 Ill. Reg. 7328, effective May 31, 1983, for a maximum of 150 days; amended at 7 Ill. Reg. 13930, effective October 12, 1983; codified at 8 Ill. Reg. 19993; amended at 8 Ill. Reg. 24621, effective December 12, 1984; amended at 9 Ill. Reg. 13340, effective August 21, 1985; amended at 10 Ill. Reg. 7862, effective May 16, 1986; amended at 11 Ill. Reg. 9278, effective April 30, 1987; amended at 14 Ill. Reg. 1385, effective January 10, 1990; repealed at 17 Ill. Reg. _____, effective _____.

SUBPART A: DEFINITIONS

Section 890.110 General

a) Administration. For the purpose of administering and enforcing this code, the following terms which consist of words or expressions that have a precise meaning in plumbing shall have the meaning indicated.

b) Words, Terms or Expressions. Words or terms or expressions found throughout the code that are not clearly understood shall be clarified by the Department.

c) Authority. These rules are promulgated pursuant to authority granted by the Illinois Plumbing License Law (Ill. Rev. Stat. 1981, ch. 111, pars. 1101 it seq.)

Section 890.120 Definitions

"Abutting": To border, to touch, to terminate at point of contact, adjacent.

"Accessible": Accessible means having access thereto but which first may require the removal of an access panel, door or similar obstruction. Readily accessible means direct access without the necessity of removing or moving any panel, door or similar obstruction.

"Adjacent": Same as abutting.

"Air Gap": The air gap in a water-supply system is the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank or plumbing fixture and the flood-level rim of the receptacle. See Exhibit A: Illustrations A and B.

"Anchors": A reliable, rigid support for securing pipe, fixtures, and equipment to walls, ceilings, floors, or any other structural members.

"Anti-Siphon Ball Cock": An anti-siphon ball cock is a device consisting essentially of a float valve equipped with a flow-splitter to provide for tank and trap refill, which has an integral vacuum breaker, and which is used in conjunction with water closet flush tanks.

"Approved": Approved means accepted or acceptable under an applicable specification stated or cited in this code or accepted as suitable for the proposed use. Accepted as satisfactory.

"Area Drain": A drain placed in the floor of a basement area way, a depressed or basement entry way, a loading platform, or a paved driveway which cannot otherwise be drained.

"Aspirator": A device supplied with fluid under positive pressure which passes through an integral orifice or construction causing a partial vacuum. A hollow tubular instrument connected with a partial vacuum and used to remove fluid or tissue or foreign bodies from the body.

"Backflow": Backflow denotes the reversal of flow from that normally intended. Back-siphonage is one type of backflow.

"Backflow Connection": Backflow connection or condition is any arrangement whereby backflow can occur.

"Backflow Preventer": A backflow preventer is a device to prevent backflow into the potable water supply system. A device which prevents contaminated water or liquids from being siphoned into the potable water supply system. A backflow preventer is also a device to prevent backflow into the building drainage system.

"Backflow Preventer, Double Check Valve (DCV)": A backpressure backflow preventer designed to operate under continuous or intermittent pressure, including backpressure.

"Backflow Preventer, Double Detector Check (DDC)": A backpressure backflow preventer designed to serve also as a detector check on fire protection systems. It includes a line-size double check valve backflow preventer with a metered by-pass, into which has been incorporated a three-quarter inch double check valve backflow preventer.

"Backflow Preventer, Dual Check (DuC)": A backpressure backflow preventer designed especially for isolating water systems to residences, mobile homes, etc., and for isolating residential lawn sprinkler systems, etc.

"Backflow Preventer, Reduced Pressure Zone (RPZ)": A back pressure and backsiphonage backflow preventer designed to operate under continuous pressure, including back pressure.

"Backflow Preventer with Intermediate Atmospheric Vent (IAV)": A small back pressure and backsiphonage backflow preventer designed to operate under continuous pressure, including back pressure.

"Back Pressure": Back pressure is an opposing pressure which causes or tends to cause liquid or air to flow in the direction opposite to the normal direction of flow in a closed conduit.

"Back Siphonage": The flowing back of used, contaminated, or polluted water from a plumbing fixture or vessel or other source into a negative pressure in such pipe. See: backflow, cross connection.

"Back/Siphonage Preventer". A device designed to prevent reverse flow in a water system. The term should be used only where no back pressure is implied.

"Ball Cock": A device consisting of a float valve, equipped with a flow-splitter to provide a tank and trap refill, used in conjunction with a flush tank on a water closet.

"Battery of Fixtures": A battery of fixtures is any group of 2 or more similar adjacent fixtures which discharge into a common horizontal waste or soil branch. See Exhibit A, Illustration C.

"Boiler Blow-Down": Boiler blow-down is a controlled outlet on a boiler to permit emptying or discharging of sediment.

"Branch": A branch is any part of the piping system other than a main, riser, or stack. See Exhibit A, Illustration D.

"Branch Interval": A branch interval is a length of soil or waste stack corresponding in general to a story height, but in no case less than 8 feet within which the horizontal branches from one floor or story of a building are connected to the stack.

"Branch Vent": A branch vent is a vent connecting one or more individual vents with a vent stack or stack vent. See Exhibit A, Illustration E.

"Building": A building is a structure, built, erected, and framed in component structural parts designed for the housing, work, recreation, shelter, enclosure, or support of persons, animals, or property of any kind.

"Building Classification": Building classification is the arrangement adopted by the Department for the designation of buildings in classes based upon their use or occupancy.

"Building Drain": The building (house) drain is that part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste, and other drainage pipes inside the walls1Of the buildings and conveys it to the building (house) sewer. The building drain terminates five (5) feet outside the building foundation wall. See Exhibit A, Illustration F.

"Building Sewer": The building (house) sewer is that part of the horizontal piping of a drainage system which extends from the end of the building drain, receives the discharge of the building drain and conveys it to a public sewer, private sewer, individual sewage disposal system or other point of disposal. The building sewer commences five (5) feet outside the building foundation wall.

"Building Storm Drain": A building storm drain is the lowest horizontal portion of the storm drainage system used for conveying rain water, surface water, ground water, subsurface water, condensate, cooling water, or other similar liquid waste (excluding sewage) to a point five feet beyond the outside of the building foundation wall.

"Building Storm Sewer": A sewer which is used for conveying rain water, surface water, ground water, sub-surface water, site drainage, condensate, cooling water or other similar liquid waste (excluding sewage) from the building storm drain to the storm sewer or other approved point of discharge.

"Building Sub-drain": A building sub-drain is that portion of a sanitary drainage system (See Definition of Drainage System) which cannot drain by gravity into the building drain. See Exhibit A, Illustration G.

"Building Trap": A building (house) trap is a device, fitting or assembly of fittings installed in a building drain to prevent circulation of air between the drainage system of the building and the building sewer.

"Certified Tester": A person qualified to make inspections, test, and repair cross-connection-control devices; and who has proved his competency to the applicable regulatory agency(s). This is required by the Illinois Environmental Protection Agency within 35 Ill. Adm Code 608.

"Chemical Waste System": Piping which conveys to the drainage system

corrosive or harmful industrial, chemical, or processed waste.

"Circuit Vent": A circuit vent is a branch vent that serves two or more traps and extends from the front of the last fixture connection of a horizontal branch to the vent stack. This type of venting applies only to floor drains and floor outlet fixtures which depend on self-siphonage for proper operation. See Exhibit A, Illustration H.

"Closed Water System". One with a checking device installed in the service pipe. A check valve, backflow preventer, or pressure reducing valve creates a closed water system.

"Code": The word "code" when used alone shall mean this part, subsequent amendments thereto, or any emergency rule which the Department may lawfully adopt. In order for a plumbing code to be enforceable, it must be at the state level authorized by statute and promulgated pursuant to such statute. At the local level, i.e., county, city, town, village, sanitary or water district, must by ordinance or resolution adopt a plumbing ordinance or plumbing resolution and a plumbing code and such ordinance or resolution and code must be filed with the clerk's office. Standards for plumbing contained in a code that has not been officially adopted can only be construed as being a recommended standard.

"Combination Fixture": A combination fixture is a fixture combining one sink and tray or a two or three compartment sink or tray in one unit.

"Combination Waste and Vent System": A combination waste and vent system is a system of waste piping embodying the horizontal wet venting of one or more floor drains by means of a common waste and vent pipe adequately sized to provide free movement of air above the flow line of the drain.

"Combined Building Sewer": A combined building sewer receives storm water and sewage.

"Common Vent": A common vent is a vent connecting at the junction of two fixture drains and serving as a vent for both fixtures. See Exhibit A, Illustration I.

"Common Waste": A common waste is a drain from a fixture containing multiple compartments connected to a single trap.

"Conductors": A pipe inside the building which conveys storm water from the roof to a storm drain or sewer. See "downspout" or "leader."

"Contaminated Water": Contaminated water is water not suitable for human consumption and does not meet public health standards.

"Continuous Vent": A continuous vent is a vertical vent that is a continuation of the drain to which it connects. The drain may be either vertical or horizontal, but the vent must be vertical and a continuation of the drain. A continuous vent is also known as a back vent or an individual vent. See Exhibit A, Illustration I.

"Continuous Waste": A continuous waste is a drain from a combination fixture connected to a single trap.

"Critical Level": The words "critical level" shall mean the mark on an atmospheric vacuum breaker established by the manufacturer and stamped -CL-. This determines the minimum elevation above the flood-level rim or top of the fixture whichever shall apply, at which the device shall be installed. When an atmospheric vacuum breaker does not bear a critical level marking, the bottom of the vacuum breaker, shall constitute the critical level.

"Cross Connection": A cross connection is any physical connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other water of unknown or questionable safety, whereby water may flow from one system to the other, the direction of flow depending on the pressure differential between the two piping systems.

"Cross-Connection Control (CCC)": An activity designed to prevent, discover, and eliminate all cross-connections.

"Cross-Connection Control by Containment": The installation of a backflow preventer at the service-connection to a premises to protect the water main.

"Cross-Connection Control By Isolation": The installation of a backflow preventer or a vacuum breaker at each cross-connection in a premises to protect both the premises and water main.

"Cross-Connection, Nonpressure Type": A submerged inlet installation where a potable water pipe is connected or extended below the overflow rim of a receptacle, or an environment, that contains a nonpotable fluid, and is at atmospheric pressure.

"Cross-Connection, Pressure Type": An installation where a potable water pipe is connected to a closed vessel or piping system that contains nonpotable fluid, and above atmospheric pressure.

"Dead End": A dead end is a branch leading from a soil, waste, vent

pipe, building drain, or building sewer, which is terminated at a developed distance of two (2) feet or more by means of a plug or other closed fitting, except piping serving as a cleanout extension to an accessible area.

"Developed Length": The developed length of a pipe is its length along the center line of the pipe including fittings.

"Diameter": The length of a straight line through the center of an object. The diameter of piping is measured from the inside wall to inside wall.

"Downspout": Downspout is the vertical portion of a rain water pipe. A pipe leading downward; a pipe to carry off rain water from a roof. See "leader."

"Drain": A drain is any pipe which carries waste water or water borne waste in a building drainage system. See Exhibit A, Illustration K.

"Drain Laying" (trade of): Drain laying encompasses the laying and connecting of piping from five (5) feet from the foundation walls of a building to the sewer service lateral in the street-alley, or shall include the laying and connection stub provided for this purpose.

"Drainage System": A drainage system (drainage piping) includes all piping within public or private premises, which conveys sewage, rain, or other liquid wastes to a point of disposal, but does not include the mains of a public sewer system or a private or public sewage treatment or disposal plant. The drainage system does not include the venting system. Drainage and venting are separate systems though both are part of the overall plumbing design.

"Durham System": Durham system is a soil or waste system where all piping is of threaded pipe, using recessed drainage fittings.

"Effective Opening": The effective opening is the minimum cross-sectional area at the point of water-supply discharge, measured or expressed in terms of diameter of a circle. If the opening is not circular, the diameter of a circle of equivalent cross-sectional area. (This is applicable to sizing of an air gap.)

"Existing Work": Existing work is a plumbing system or any part thereof which has been installed prior to the effective date of this code. For local governmental units that have adopted a local plumbing ordinance and plumbing code, the definition of "existing work" would be existing work in a plumbing system or any part thereof which has been installed under authorization of a previously issued

permit.

"Fixed": To be stationary, immovable or unalterable as in a fixed air gap. It means the unobstructed and vertical distance through the free atmosphere between the stationary water discharge point and the flood level rim of the receptacle.

"Fixture Branch": A fixture branch is a water-supply, soil or waste pipe serving more than one fixture.

"Fixture Carrier": A fixture carrier is a metal unit designed to support an off-the-floor plumbing fixture.

"Fixture Drain": A fixture drain is the outlet pipe from the trap of a fixture to the junction of that drain with any other drain pipe. See Exhibit A, Illustration L.

"Fixture Supply": A water supply pipe connecting the fixture with the fixture water supply branch.

"Fixture-Unit, Drainage": A fixture-unit, drainage is the mathematical factor used by the plumbing industry as a means of estimating the probable load in the drainage system caused by discharge of various plumbing fixtures. This factor has proven reliable as it was developed after many years of practical experience and supported by laboratory testing and research.

AGENCY NOTE: Laboratory tests have shown that the rate of discharge of an ordinary lavatory with a normal 1-1/4" outlet, trap, and waste is about 7.5 gallons per minute. This figure is so near to one cubic foot per minute that "one cubic foot per minute" has become the accepted flow rate of one fixture unit.

"Fixture-Unit, Water Supply": Fixture-unit, water supply is the mathematical factor used by the plumbing industry as a means of estimating the probable demand on the water supply system (volume, duration of flow, and intervals between operations) by various plumbing fixtures. This factor has proven reliable as it was developed after many years of practical experience and supported by laboratory testing and research.

"Float Valve": A float valve is a positive opening valve, operated by a float, used to control the water level in a vessel, tank, or other container.

"Flood Level": The flood level is the elevation at which impounded fluid will overflow.

"Flood-Level Rim": The flood-level rim is the top edge of the receptacle from which water overflows.

"Flooded": A fixture is flooded when the liquid therein rises to flood-level rim. This term applies to any fixture which is part of the plumbing system.

"Flush Valve": A flush valve is a device for the purpose of flushing water closets and other similar fixtures. See Exhibit A, Illustration M.

"Flushometer Valve": A flushometer valve is a device which discharges a predetermined quantity of water to fixtures for flushing purposes and is actuated by direct water pressure.

"Grade": Grade is the fall (slope) of a line of pipe in reference to a horizontal plane. In drainage, it is usually expressed as the fall in a fraction of an inch per foot length of pipe. This may also be expressed as a percentage. See Exhibit A, Illustration N.

"Grease Interceptor": A device designed and installed so as to separate and retain deleterious, or undesirable grease matter from normal sewage waste while permitting the normal sewage waste or liquid waste to discharge into the drainage system by gravity. See "interceptor."

"Grease Trap": See "grease interceptor."

"Grey Water": Waste water such as dishwater, laundry waste, and other waste water not containing fecal matter.

"Group of Fixtures": A group of fixtures means two or more fixtures adjacent or near each other. See Section 890.1620(e).

"Hangers": Devices for supporting and securing pipe, fixtures, and equipment to walls, ceilings, floors, or any other structural member.

"Horizontal Branch": A horizontal branch is a drain pipe extending laterally from a soil or waste stack or building drain, with or without vertical sections or branches, which receives the discharge from one or more fixture drains and conducts it to the soil or waste stack or to the building drain. See Exhibit A, Illustration O.

"Horizontal Pipe": Horizontal pipe means any pipe or fitting which makes an angle of less than 45 degrees with the horizontal.

"Hose": A flexible tube for conveying fluids (as from a faucet or hydrant).

"Hose Bibb": A faucet to which a hose may be attached.

"House Drain": See building drain.

"House Trap": See building trap.

"Hydrant": A threaded valve outlet to which a flexible hose may be attached.

"Indirect Waste": An indirect waste is a pipe that does not connect directly with the drainage system but conveys liquid waste by discharging through an air gap into the drainage system.

"Individual Sewage Disposal System (Private Sewage Disposal System)": This means any sewage handling or treatment facility receiving domestic sewage from less than fifteen (15) people or population equivalent and having a ground surface discharge or any sewage handling or treatment facility receiving domestic sewage and having no ground surface discharge. Refer to Private Sewage Disposal Licensing Act (Ill. Rev. Stat. 1987, ch. 111 1/2, pars. 116.301 et seq.) and Code (77 Ill. Adm. Code 905), Illinois Department of Public Health.

"Individual Vent": An individual vent is a pipe installed to vent a fixture trap and which connects with the vent system above the fixture served or terminates in the outside atmosphere.

"Individual Water Supply (Private Water Supply)": A water supply system serving one or more families independent of a public water supply system.

"Industrial Wastes": Industrial wastes are liquid wastes resulting from the processes employed in industrial establishments and are free of human and animal waste.

"Insanitary": Contaminated. Unclean enough to endanger health. Contrary to acceptable sanitary practices. Potential health hazard.

"Interceptor": An interceptor is a device designed and installed to separate and retain deleterious, hazardous, or undesirable matter from normal waste and permit normal sewage or liquid waste to discharge into the drainage system.

"Invert": The invert is the floor, bottom, or lowest part of the internal cross-section of a pipe or conduit.

"Island Fixture Vent": A vent in which the vent pipe rises as near as possible to or above the highest water level in the fixture vented

and then turns down before connecting to the stack or main vent. See Section 890.2120 Island Fixture Vent.

"Leaching or Seepage Pit": A pit or receptacle having porous walls which permit the contents to seep into the ground.

"Leader": See "downspout"; "conductor".

"Length of Pipe": Length of pipe is the overall distance measured along the center line of a pipe. See "developed length."

"Liquid Waste": Liquid waste is the discharge from any fixture, appliance, or appurtenance, in connection with a plumbing system which does not receive fecal matter.

"Load Factor": The load factor is the percentage of the total connected fixture unit flow rate which is likely to occur at any point in the drainage system. The load factor varies with the type of occupancy, the total flow unit above this point being considered, and with the probability factor of simultaneous use. Load factor represents the ratio of the probable load to the potential load. It is determined by the average rates of flow of the various kinds of fixtures, by the average frequency of use, by the duration of flow during one use, and by the number of fixtures installed.

"Local Ventilating Pipe": A local ventilating pipe is a pipe on the fixture side of the trap through which vapors or gases or foul air are removed from a room or fixture to the outside atmosphere. Certain special apparatus, such as sterilizers, are sometimes provided with a local ventilating pipe in order to remove vapors. A local ventilating pipe is not connected into the vent piping of the drainage system.

"Loop Vent": A circuit vent which loops back to connect with a stack vent instead of a vent stack and is limited to floor drains and floor outlet fixtures which depend on self siphonage for proper operation.

"Main": The main of any piping system is the principal artery of the system to which branches may be connected.

"Main Vent": The main vent is the principal artery of the venting system to which vent branches may be connected. See Exhibit A, Illustration P.

"Maximum Demand": In plumbing the greatest requirement of flow of either water supply or waste discharge from the fixtures of a building, or any specific segment thereof.

"May": The word may is a permissive term.

"Manhole": A manhole is an opening constructed to permit a person to gain access to an enclosed space. A manhole is an opening constructed in a sewer or any portion of the plumbing system to eliminate restriction of flow at changes of direction or junction and to facilitate cleaning.

"Minor Repairs": Minor repairs do not require changes in the piping to or from plumbing fixtures or involve the removal, replacement, installation or reinstallation of any pipe or plumbing fixture.

"New Work": Any plumbing system, part thereof, or addition to or alteration of an existing system, being installed or recently completed.

"Non-Potable Water": Non-potable water is water that does not meet public health standards for drinking water and is not suitable for human consumption.

"Non-Toxic Transfer Fluids": Fluids having no detrimental effect on humans under normal circumstances including propylene glycol, mineral oil, polydemethy siloxane, freon, and FDA approved boiler water additives for steam boilers.

"Occupancy": For the purpose of this code, occupancy shall mean taking possession of and living in as a sole and exclusive residence for a period of not less than six (6) months after the completion of construction of the single family residence or issuance of a Certificate of Occupancy by a unit of local government.

"Offset": An offset in a line of piping is a combination of elbows or bends which brings one section of the pipe out of line into a line parallel with the other section.

"Open Plumbing": Installation of plumbing so that traps and drainage pipes and their surroundings beneath fixtures are ventilated, accessible, and open to inspection. Exposed plumbing installation.

"Open Water System": A water system with no checking device installed in the service pipe.

"Peppermint Oil": A pungent, aromatic mint oil sometimes used in testing a drain, waste and vent system by pouring peppermint oil down each roof terminal followed by hot water; the roof terminals are closed and the odor of peppermint indicates a leak.

"Peppermint Test": A test for leakage using peppermint oil and

heated or hot water as the media and the sense of smell as the determining factor.

"Percolation": Percolation is the flow or trickling of a liquid downward through a contact or filtering medium; the liquid may or may not fill the pores of the medium. The movement or flow of water through the interstices or the pores of a soil or other porous medium.

"Percolation Test": Percolation test means a sub-surface test at a depth of a proposed seepage system or similar component of a private sewage disposal system to determine the water absorption capability of the soil.

"Pet Cock": A pet cock is a small cock, faucet or value, set in a water pipe, pump or drain outlet, at the end of a cylinder, in a radiator or water jacket, used to drain water, steam, or air.

"pH": An expression both of acidity and alkalinity on a scale whose values run from 0 to 14 with the lower of the number less than 7 indicating increasing acidity and the number greater than 7 increasing alkalinity.

"Pipe": Pipe is a tube conforming to the particular dimensions commonly known as "pipe size." This definition is for the purpose of distinguishing from the word "tube," particularly in brass or copper conduit. Pipe size usually refers to dimensions of the bore. The bore is defined as the nominal interior diameter of the pipe. A pipe is also defined as any closed conduit used to convey fluids, air, or gases.

"Pipefitting": The installation of piping other than that which is defined as plumbing.

"Pitch": Pitch is synonymous with "grade." The fall (slope) of a line of pipe in reference to a horizontal plane. In drainage it is usually expressed as the fall in a fraction of an inch per foot length of pipe. The pitch can also be expressed as a percentage.

"Plumbing": Refer to the Illinois Plumbing License Law. (Ill. Rev. Stat. 1987, ch. 111, par. 1101 et seq.).

"Plumbing Appliance": A unit whose operation and/or control may be dependent upon one or more energized components, such as motors, controls, heating elements, or pressure or temperature sensing elements. Such fixtures may operate automatically through one or more of the following actions: a time cycle, a temperature range, and pressure range, a measured volume or weight, or the fixture may be manually adjusted or controlled by the user or operator. An

adjunct, usually mechanical, and similar to a plumbing fixture except that it is designed for a specific purpose and not generally indispensable in the operation of the plumbing system.

"Plumbing Appurtenance": A manufactured device, or a pre-fabricated assembly, or an on-the-job assembly of component parts, and which is an adjunct to the basic piping system and plumbing fixtures. An appurtenance demands no additional water supply, nor does it add any discharge load to a fixture or the drainage system. It is presumed that it performs some useful function in the operation, maintenance, servicing, economy, or safety of the plumbing system.

"Plumbing Fixture": An installed appurtenance to the potable water supply system, which makes available intended potable water, or a receptor which receives and discharges liquids or liquid-borne waste either directly or indirectly into the drainage system. Plumbing fixtures are approved type installed receptacles, devices or appliances which are supplied with water or which receive liquid or liquid-borne waste and discharge such waste into the drainage system to which they may be directly or indirectly connected. Industrial or commercial tanks, vats, and similar processing equipment are not plumbing fixtures, but they may be connected to, or discharged into, approved traps or plumbing fixtures. A permanent appendage usually designed as a receptacle and intended to receive and/or discharge liquid or liquid-borne waste to a drainage system.

"Plumbing Inspector": Refer to the Illinois Plumbing License Law.

"Plumbing System": Refer to the Illinois Plumbing License Law.

"Pool (Swimming)": According to Section 7 through-27 of the Swimming Pool and Bathing Beach Act, (Ill. Rev. Stat. 1987, ch. 111 1/2, pars. 1207 through-1227), a swimming pool means any artificial basin of water which has been modified, improved, constructed, or installed for the purpose of public swimming, and includes pools for community use, pools at apartments having five (5) or more living units, clubs, camps, schools, institutions, park and recreational areas, motels, hotels, and other commercial establishments. The Swimming Pool and Bathing Beach Act does not apply to pools at private residences intended only for use of the owner and guests. The physical connection between the potable water supply line and the swimming pool shall be made by an Illinois licensed plumber or an Illinois licensed apprentice plumber under the supervision of a licensed plumber. Water closets, showers, lavatories, and drinking fountains installed in a swimming pool complex must be installed by a licensed plumber or a licensed apprentice plumber under the supervision of a licensed plumber.

"Potable Water": Potable water is water that is suitable for human consumption. Potable water is water that meets public health standards for drinking water.

"Pressure Gradient Monitor": A device used to protect the quality of water, failsafe by design, securing the potable water system by isolating a heat exchanger when the pressure between the potable water and the heat exchange medium drops below a preset level.

"Pressure Relief Valve": See relief valves.

"Private or Private Use": In the classification of plumbing fixtures, private applies to fixtures in residences, apartments, and private bathrooms of hotels or motels where the fixtures are intended for the use of the single family or an individual.

"Private Sewer": A private sewer is a sewer privately owned and not directly controlled by a public authority.

"Private Water Supply": Any facility furnishing potable water for all purposes which is not a public water system.

"Proper" or "Properly" means to be accurate or meeting the standard of competence for the given situation and properties of the materials involved based upon the standards in this Part and manufacturer's recommendations. In addition, the definitions afforded these terms by the Courts of the State of Illinois shall apply when appropriate to the given situation.

"Public or Public Use": Other than "private or private use" as described above.

"Public Sewer": A public sewer is a sewer directly controlled by a public authority.

"Public Water System": A public water supply is any facility furnishing potable water through a system of distribution mains where ten (10) or more separate lots or premises are served. A water supply system controlled by public authority. A system for the provision to the public of piped water for human consumption, if the system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. The term public water system includes: any collection, treatment, storage, and distribution facility under the control of the operator of such system and used primarily in connection with such system; and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system.

"Quarter Bend": A fitting changing direction 90 degrees. A 90 degrees fitting.

"Quick Closing Valve": A valve or faucet that closes automatically when released manually or controlled by a mechanical means for fast action closing. Faucets that close one-half round or less can be considered quick closing.

"Readily Accessible": See "Accessible."

"Receptor": Devices or fixtures which receive the discharge from indirect waste pipes.

"Relief Valves":

temperature relief valve - A valve designed to release water to atmosphere at a predetermined temperature setting.

pressure relief valve - A valve designed to relieve excessive pressure to atmosphere at a predetermined setting.

temperature and pressure relief valve - a valve incorporating a

temperature relief valve and a pressure relief valve in one unit.

vacuum relief valve - A valve which admits air to the system if and when the system is attempting to reduce its pressure to less than atmospheric.

"Relief Vent": A vent which permits circulation of air in or between drainage and vent systems. See Exhibit A, Illustration Q.

"Return Offset": A double offset installed so as to return the pipe to its original alignment. See Exhibit A, Illustration R.

"Revent Pipe": See "individual vent". See Exhibit A: Illustration S.

"Rim": An unobstructed open edge of a fixture.

"Riser": A water supply pipe which extends vertically one full story or more to convey water to branches or to a group of fixtures.

"Roof Drain": A drain installed to receive water that has been collected on the surface of a roof and discharged into a leader or conductor.

"Roughing-In": The installation of all parts of the plumbing system

which can be completed prior to the installation of fixtures. This includes drainage, water supply, and vent piping, and the necessary fixture supports.

"Safe Pan": A safe pan is installed beneath piping and fixture to collect and drain any leakage. Safe pans are especially important in food preparation and food storage areas that have overhead, exposed, drainage piping.

"Safe Waste": See "indirect waste."

"Sand Interceptor": See "interceptor."

"Sanitary Sewer": A sewer into which building sewers are connected which carries sewage excluding storm, surface, and ground water.

"Sanitary waste," refer to Section 890.1770;

"Seepage Bed": A shallow covered pit with level bottom containing gravel and distribution piping designed to allow septic tank effluent to seep into the ground. It is furnished at the same depth as recommended for seepage fields and intended for use when insufficient area is available for seepage fields.

"Seepage Pit": A covered pit filled with rock and provided with an open-jointed lining through which septic tank effluent seeps or leaches into the surrounding soil.

"Separator": See "interceptor."

"Septic Tank": A water-tight, accessible, covered receptacle designed and constructed to receive sewage from a building sewer, to settle solids from the liquids, to retain floating scum accumulation, to digest organic matter and store digested solids through a period of retention and allow the clarified liquid to discharge to other treatment units for final disposal.

"Service-Connection". The point of delivery of water to a premises.

"Sewage": Any liquid waste containing animal, human, or vegetable matter in suspension or solution, and may include liquids containing chemicals in solution.

"Sewage Ejector": A device for lifting sewage by mechanical means.

"Side Vent": A vent connecting to the drain pipe through a fitting at an angle not greater than 45 degrees to the vertical.

"Size of Pipe and Tubing": See "diameter." The nominal inside diameter as designated commercially.

"Slope": See "grade."

"Soil Pipe": A soil pipe is any pipe which conveys the discharge of water closets or fixtures having similar functions, with or without the discharge from other fixtures, to the building drain or building sewer.

"Special Waste Pipe": Piping which conveys special waste. Piping that has been designed and manufactured of special material to handle special waste such as acids.

"Special Wastes": Wastes which require special handling and treatment before their entry into the normal plumbing system. See Subpart I.

"Sprinkler System": There are two basic types of sprinkler systems. A fire sprinkler system is a system of piping and necessary appurtenances for conveying water or other extinguishing fluid to outlets for the purpose of fire extinguishment. A lawn sprinkler system is a system of piping installed for irrigation purposes.

"Stack": A general term for any vertical line of soil, waste, or vent piping.

"Stack Vent": The extension of a soil or waste stack above the highest horizontal drain connected to the stack. See Exhibit A, Illustration T.

"Stack Venting": A method of venting a fixture or fixtures through the soil or waste stack.

"Sterilizer, Boiling Type": A boiling type "sterilizer" is a fixture (non-pressure type) used for boiling instruments, utensils, and/or other equipment (used for disinfection). Some devices are portable, others are connected to the plumbing system.

"Sterilizer, Instruments": A device for the sterilization of various instruments.

"Sterilizer, Pressure (autoclave)": A fixture (pressure vessel) designed to use steam under pressure for sterilizing.

"Sterilizer, Pressure Instrument Washer-Sterilizer": A pressure instrument washer-sterilizer is a fixture (pressure vessel) designed to both wash and sterilize instruments during the operating cycle of

the fixture.

"Sterilizer Vent": A separate pipe or stack, which is trapped below the lowest exhaust and indirectly connected to the building drainage systems, which receives the vapors from non-pressure sterilizers, or the exhaust vapors from pressure sterilizers, and conducts the vapors directly to the outside atmosphere. Sometimes called a vapor, steam, atmospheric, or exhaust vent.

"Sterilizer Water": A water sterilizer is a device for sterilizing water and storing sterile water.

"Storm Sewer": A sewer used for conveying rain water, surface water, ground water, cooling water, or other similar liquid waste, (excluding sewage) to an approved point of discharge.

"Subsoil Drain": A drain which collects subsurface or seepage water and conveys it to a place of disposal.

"Sub-soil Drainage," See Appendix A.

"Sump": A receptacle which receives sanitary or storm waste, located below the normal grade level of the gravity system, and emptied by mechanical means.

"Sump Pump": A pump for the removal of drainage from a sump.

"Supports." Supports, hangers, and anchors are devices for supporting and securing pipe fixtures to walls, ceilings, floors, or structural members.

"Swimming Pool": See "pool" (swimming)

"Temperature and Pressure Relief Valve": See "relief valves."

"Toxic": Not fit for human consumption. Poisonous.

"Toxic Transfer Fluids": Sanitary waste, grey water or mixtures containing harmful substances including ethylene glycol, hydrocarbons, oils, ammonia refrigerants, and hydrazine.

"Trap": A trap is a fitting or device so designed and constructed as to provide, when properly vented, a liquid seal which will prevent the back passage of air without materially affecting the flow of sewage or waste water through it. See Exhibit A, Illustration U.

"Trap Arm": A trap arm is that portion of a fixture drain between a trap and its vent.

"Trap Primer": A trap primer is a device or system of piping to maintain a water seal in a trap.

"Trap Seal": The vertical distance between the crown weir and the top of the dip of the trap.

"Tuberculation": A condition which develops on the interior of pipe due to corrosive materials resulting in the creation of small, hemispherical lumps (tubercles) on the inner walls of the pipe.

"Vacuum":
a space absolutely devoid of matter;
a space as the interior of a closed vessel partially exhausted to the highest degree possible by an air pump or by any of various artificial means;
a degree of rarefaction below atmospheric pressure;
a pressure less than atmospheric pressure and is sometimes referred to as suction.

It is usually measured by the number of inches of mercury below atmospheric pressure, such as ten or twenty inches of mercury. To siphon.

"Vacuum Breaker": A device to prevent the creation or formation of a vacuum by admitting air atmosphere pressure, used to prevent back siphonage.

"Vacuum Breaker, Hose Type (HVB)": A backsiphonage prevention device designed for hose connections only which are not under continuous pressure.

"Vacuum Breaker, Non-Pressure Type (Atmospheric)": A vacuum breaker which is not designed to be subject to static line pressure.

"Vacuum Breaker, Pressure Type": A vacuum breaker designed to operator under conditions of static line pressure.

"Vacuum Relief Valve": A device to prevent excessive vacuum.

"Vent Pipe." Part of the vent system.

"Vent Stack": A vent stack is a vertical vent pipe installed primarily for the purpose of providing circulation of air to and from any part of the drainage system and terminating to the atmosphere or in the stack vent. See Exhibit A, Illustration V.

"Vent System": The pipe or pipes installed to provide a flow of air to or from a drainage system or to provide a circulation of air

within such system to protect trap seals from siphonage and back pressure.

"Vertical Pipe": Any pipe or fitting which makes an angle of 45 degrees or less with the vertical.

"Wall Hung Water Closet": A water closet installed in such a way that no part of the water closet touches the floor.

"Waste": See "liquid waste".

"Waste Pipe": A pipe which conveys only waste material.

"Water Distributing Pipe": A pipe within the building or on the premises which conveys water from the water service or meter to the point of usage.

"Water Hammer": A concussion or sound of concussion of moving water against the sides of a containing pipe or vessel on a sudden stoppage of flow. A pressure that results from a sudden deceleration of flow of water in a closed conduit.

"Water Hammer Arrester": A device to absorb hydraulic shock.

"Water Heater": vessel for supplying hot water for all purposes.

"Water Main": A water supply pipe for public or community use.

"Water Outlet": A discharge opening through which water is supplied to the fixture into the atmosphere (except into an open tank which is part of the water supply system), to a boiler or heating system, to any device or equipment requiring water to operate but which is not part of the plumbing system.

"Water Riser Pipe": See "riser".

"Water Service Pipe": Runs from the water main or source of potable water supply to the water distribution system of the building served.

"Water Supply Stub": A vertical pipe less than one story in height supplying one or more fixtures.

"Water Supply System": The water service pipe, the water distribution pipe, and the necessary connecting pipes, fittings, or control valves, and all appurtenances in or adjacent to the building being served or premises.

"Wet Vent": A vent which also serves as a drain. A vent which

receives the discharge of wastes other than from water closets. See Exhibit A, Illustration W.

"Yoke Vent": A pipe connecting upward from a soil or waste stack to a vent stack from the purpose of preventing pressure changes in the stack. See Exhibit A, Illustration X.

Section 890.130 Incorporation by Reference

All incorporations by reference of federal regulations and the standards of nationally recognized organizations in this Part refer to the regulations or standards on the date specified and do not include any additions or deletions subsequent to the date specified.

SUBPART B: GENERAL REGULATIONS

Section 890.210 Conformance Code

Compliance. Plumbing shall comply with the minimum standards for plumbing contained in this code.

Section 890.220 Grade of Horizontal Piping

a) Horizontal drainage piping shall be installed in a practical alignment and a uniform grade.

b) It is good plumbing practice to provide a velocity of approximately two (2) feet per second in order to scour the pipes which lessens the possibility of stoppage. The minimum grade or slope for drainage piping three (3) inches or less in diameter is 1/4" fall per foot; for drainage piping 4" or larger in diameter, 1/8" fall per foot.

Section 890.230 Change in Direction

a) Fittings. Changes in direction of drainage piping shall be made by the appropriate use of 45-degree wyes, long sweeps, quarter, fifth, sixth, eighth, or sixteenth bends, or by a combination of these fittings. Single and double sanitary tees and short/sweep quarter bends may be used in drainage lines only where the direction of flow is from the horizontal to the vertical and may be used for making necessary vertical offsets between the ceiling and next floor above. See Exhibit B: Illustration A, B, and C.

b) Short Sweeps. Short sweeps not less than three (3) inches in diameter may be used in soil and waste lines where the change in direction of flow is from the horizontal to the vertical and may be used for making necessary vertical offsets between the ceiling and the next floor above. See Section 890.740. See Exhibit B: Illustrations A, B, and C.

c) Back-to-Back Fixtures. Back-to-back fixtures shall be installed with fittings that will prevent mixing of the discharge prior to a change in direction of flow of the discharge from each fixture or shall be installed with fittings especially designed to eliminate throw-over of one discharge to the other. Double sanitary tees shall not be installed in the horizontal portion of the drainage system to accommodate back-to-back fixtures.

Section 890.240 Fittings and Connections

a) Fittings Prohibited.

1) No fittings having a hub in the direction opposite to flow, or tee branch, shall be used as a drainage fitting. No running threads, bands, or saddles shall be used in the drainage system. No drainage or vent pipe or fitting shall be drilled or tapped. No pipe or fitting of the water supply system shall be drilled or tapped nor shall any band or saddle be used except water main pipe listed in Exhibit G:Table D.

2) All fittings used for connecting drainage piping or for changes in direction in the drainage system must be of a type and installed in a manner that under normal conditions of flow will prevent stoppage of the flow of the contents in the piping, air binding, undue friction loss, and unneccessary pipe noise.

b) Heel or Side-Inlet Bend. A heel or side inlet quarter bend or closet bend shall not be used as a dry vent when the inlet is placed in a horizontal position. See Exhibit B: Illustration D. See Section 890.1960(d).

c) Obstruction of Flow.

1) No fittings, connection, device or method of installation shall be used which obstructs or retards the flow of water, waste, or air, in the drainage or venting system in an amount greater than the normal frictional resistance to flow. The enlargement of a 3" closet bend or stub to 4" shall not be considered an obstruction. None of the methods described in Section 890.450(a), (b) and (c) shall be considered as obstructions to flow.

2) Until water closet outlets are designed to permit a 3" standard floor flange, it is necessary to increase the bend or stub at the floor line to 4" in diameter in order to accommodate the water closet outlet.

Section 890.250 Repairs and Alterations

a) Existing Buildings.

1) In existing buildings or premises in which plumbing installations are to altered, renovated or replaced, such new materials and work shall meet or exceed the provisions of this code. Where the Department shall find that the full performance of bringing such work into compliance with all requirements of this code would result in exceptional or undue hardship by reason of excessive structural of mechanical difficulty, or impracticability, a deviation may be granted by the Department only where, and to the extend, such deviation can be granted without impairing the intent and purpose of this code.

2) A record, open to inspection by the public, shall be maintained by the Department of each and every deviation allowed under the terms of this Section.

b) Health and Safety. Where a health or safety hazard exists in a building or on premises by reason of an existing plumbing installation or lack thereof, the owner or his agent shall install additional plumbing or make such corrections as may be necessary to abate such a condition and bring the plumbing system into compliance with the provisions of this plumbing code.

Section 890.260 Underground Potable Water Piping - Piping Conveying Sewage

Underground potable water piping, when installed in the same trench as piping conveying sewage, shall comply with Section 890.1560(a), (b), (c) and (d).

Section 890.270 Trenching, Bedding, Tunneling and Backfilling

a) Trenching and Bedding. Trenches shall be of sufficient width to permit proper installation of the pipe. Where shoring is required, ample allowance shall be made in the width of the trench for working conditions. Where trenches are excavated to a depth such that the bottom of the trench forms the bed for the pipe, care must be exercised to provide solid and continuance bearing between joints and bell holes shall be provided at points where the pipe is joined. Where trenches are excavated to a depth such that the bottom of the trench does not form the bed for the pipe, the trench shall be backfilled to grade with sand or fine gravel placed in layers of 6" maximum depth and compacted after each placement. The pipe shall not be supported on blocks to grade. Where rock is encountered in trenching, it shall be removed to a point at least 3" below the grade line of the trench and the trench shall be backfilled to grade with the sand tamped in place so as to provide a uniform bearing for the

pipe between joints. Care shall be exercised to see that the pipe does not rest on rock at any point including the joints. If soft materials of poor bearing qualities are found at the bottom of the trench, stabilization shall be achieved by over-excavating at least two (2) pipe diameters and bringing up to grade with fine gravel or crushed stone or a concrete foundation. Such concrete foundation shall be bedded and sand tamped in place so as to provide a uniform bearing for the pipe joints.

b) Tunneling. Pipe may be installed by tunneling or jacking, or combination of both. In such cases, special care shall be exercised to protect the pipe from damage either during installation or from subsequent, uneven loading. Where earth tunnels are used, adequate supporting structures shall be provided to prevent future settling or caving. Pipe may be installed in a large conduit which has been jacked through unexcavated portions.

c) Backfilling. Until the crown of the pipe is covered by at least eighteen (18) inches of tamped earth considerable care shall be exercised in backfilling trenches. Loose earth, free of rocks, broken concrete, frozen chunks or other rubble, shall be carefully placed in the trench in six-inch layers and tamped in place. Care shall be taken to thoroughly compact the backfill under an beside the pipe to be sure that the pipe is properly supported. Backfill shall be placed evenly on both sides of the pipe and tamped in such manner as to retain proper alignment.

d) Safety Precautions. All local rules and regulations pertaining to safety and protection of workmen, other persons in the vicinity, and neighboring property shall be observed where trenching, blasting or other hazardous operations are being conducted.

Section 890.280 Structural Safety

In the process of installing or repairing any part of a plumbing system, the floors, walls, ceilings, tile work, or any other part of the building or premises which must be changed or altered or replaced shall be left in a safe structural condition.

Section 890.290 Workmanship

Plumbing shall be done in a manner conforming to this code.

Section 890.300 Protection of Pipes

a) Breakage and Corrosion. Pipes passing under or through walls shall be protected from breakage. Pipes passing through or under cinder or concrete or other corrosive material shall be protected against

external corrosion by protective coating, or wrapping to prevent corrosion. Refer to Section 890.1350(a).

b) Cutting or Notching. No structural member shall be weakened or impaired by cutting, notching, or otherwise structurally diminished.

c) Pipes Through Footings or Foundation Walls. A soil or waste pipe, or building drain passing under a footing or through a foundation wall shall be provided with a relieving arch; or there shall be built into the wall an iron pipe sleeve, two pipe sizes greater than the pipe passing through such sleeve.

d) Freezing. No water or soil or waste pipe shall be installed or permitted outside of a building or in an exterior wall unless adequate provisions are made to protect such piping from freezing.

Section 890.310 Exclusion of Materials Detrimental to the Sewage System

It shall be unlawful for any person to deposit by any means into the building drainage system or sewer any ashes; cinders; rags; flammable, poisonous, or explosive liquids; gases; oils; grease or any other material which would or could either obstruct, damage, overload such system or which would interfere adversely with the normal operation of the sewage system including the final sewage treatment processes.

Section 890.320 Industrial Wastes

Waste products from manufacturing or industrial operations shall not be introduced into the sewer system until it has been determined that the introduction of such wastes will not cause damage to the sewer system or adversely affect the functioning of the sewage treatment plant.

Section 890.330 Sleeves

In exterior walls annular space between sleeves and pipes shall be filled or tightly caulked with a cold tar, asphaltum compound, lead or other material determined equally effective. See Exhibit B: Illustration E.

Section 890.340 Rat Proofing

a) Exterior Openings. All exterior openings provided for the passage of piping shall be properly sealed to prevent the entrance of mice, rats or other rodents.

b) Interior Openings. Interior openings through walls, floors, and ceilings shall have annular space around pipes properly closed to prevent the movement of mice, rats or other rodents.

Section 890.350 Used Plumbing Material, Equipment, and Fixtures

a) Used plumbing material, equipment and fixtures for plumbing installations shall comply with this code.

b) Used Piping, Fittings or Valves Piping, fittings or valves used for any purpose other than potable water shall not be installed in a potable water system.

Section 890.360 Condemned Plumbing Material, Equipment, and Fixtures

Any plumbing, equipment condemned by the Department because of wear, damage, defects or sanitary hazards, shall not be used for plumbing purposes.

Section 890.370 Depth of Building Drains and Water Service (Outside of Building)

a) Building Drains. Building drains shall be installed below the recorded frost penetration.

b) Water Piping. Water piping shall be installed below the recorded frost penetration, or below the minimum depth prescribed by the Department.

Section 890.380 Piping in Relation to Footings

a) Parallel. No piping shall be laid parallel to footings or outside bearing walls closer than three (3) feet.

b) Depth. Piping installed parallel to footings shall not extend below the 45° bearing plane of the wall or footing and shall be no closer than three (3) feet to the footing or outside bearing wall.

Section 890.390 Drainage Below Sewer Level

a) Drainage piping located below the level of the sewer shall be installed as provided in Subparts K and L. See Exhibit B: Illustration F.

b) Fixtures or drainage piping located below the invert of the sewer in the street or place of disposal requires a separate system of piping.

c) Sumps and Ejectors. See Section 890.1770(a)(1) and (2).

Section 890.400 Connection to Plumbing System Required

All plumbing fixtures, drains, appurtenances, and appliances used to receive or discharge liquid waste or sewage shall be connected to the drainage system

of the building or premises in accordance with the requirements of this code.

Section 890.410 Sewer and/or Water Required

Every building with an installed plumbing system and intended for human habitation or occupancy shall have a connection to a public water and/or public sewer system or a connection to a well constructed to the requirements of the Illinois Water Well Construction Code (77 Ill. Adm. Code 920) and a private sewage disposal system constructed to the requirements of the Illinois Priave Sewage Disposal Code (77 Ill. Adm. Code 905). All installations shall be in accordance with applicable State and local laws, ordinances, resolutions, rules and regulations and code.

Section 890.420 Location and Fixtures

Improper Location. Piping, fixtures, or equipment shall not be located or installed in such a manner as to interfere with the normal operation of windows, doors, or other exit openings. Plumbing fixtures shall be installed in an area where there is sufficient room so that the fixture may be used for its intended purpose.

Section 890.430 Piping Measurements

Except where otherwise specified in this code, all measurements between pipes and between pipes and walls, etc., shall be made to the center line of the pipe.

Section 890.440 Venting

The drainage system shall be provided with a system of vent piping which will permit the admission or emission of air so that under no circumstances of normal or intended use shall the seal of any fixture trap be subjected to a pressure differential of more than a one-inch water column.

Section 890.450 Water Closet Connections

a) Lead. Three-inch lead bends and stubs may be used on water closets or similar connections, provided the inlet is dressed or expanded to receive a four-inch floor flange.

b) Iron. Three-inch bends may be used on water closets or similar connections, provided a four-inch by three-inch flange is used to receive the fixture horn.

c) Reducing. Four by three-inch reducing bends are acceptable.

Section 890.460 Dead Ends

In the installation or removal of any part of a drainage system, dead ends shall be avoided except where necessary to extend the system to install a cleanout in an accessible location. A dead end intended for future connection (extension) which is more than three (3) feet vertical dimension above a floor or more than 10 feet horizontal from the nearest vented connection, must have a vented connection to the outside atmosphere. See Exhibit B: Illustration G.

SUBPART C: PLUMBING MATERIALS

Section 890.510 Materials

a) Minimum Standards. The plumbing materials, equipment, and fixtures listed in Exhibit G: Table D shall conform to at least the standard cited when such items are used in plumbing.

b) Use of Materials. Plumbing materials, equipment and fixtures shall be free of manufacturing defects or damage, which would tend to render such materials, equipment, or fixture defective, insanitary or otherwise unacceptable.

c) Reference for Agencies and organizations. Abbreviations used in Exhibit G: Table D refer to the following agencies:

ACPA - American Concrete Pipe Association, 8320 Old Court House Road, Vienna, Virginia 22180

ANSI - American National Standard Institute, Incorporated, 1430 Broadway, New York City, New York 10018

ASME - American Society of Mechanical Engineers, United Engineer Center, 345 East 47th Street, New York City, New York 10017

ASSE - American Society of Sanitary Engineering, 23760 Center Ridge Road, Cleveland, Ohio 44113

ASTM - American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19101

AWWA - American Water Works Association, 6666 West Quincy Avenue, Denver, Colorado 08235

BPI - Bituminous Pipe Institute, P.O. Box 1023, Chicago, Illinois 60611

CDA - Copper Development Association, 405 Lexington Avenue, New York City, New York 10017

CISPI - Cast Iron Soil Pipe Institute, 1499 Chain Bridge Road,

McLean, Virginia 22101

CS - Commercial Standards, Commodity Standards Division, Office of Industry and Commerce, U.S. Department of Commerce, 14th and Constitution Avenue, N.W., Washington, D.C. 20025 (Standards are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402)

FS - Federal Specifications, National Bureau of Standard, Office of Engineering Standards, U.S. Department of Commerce, Washington D.C. 20234

Foundation for Cross Connection Control and Hydraulic Research, University of Southern California, Los Angeles, California 90007

IAPMO - International Association for Plumbing and Mechanical Officials, 5032 AL-hambra Avenue, Los Angeles, California 90032

Lead Industries Association, Incorporated, 292 Madison Avenue, New York City, New York 10017

MSS - Manufacturers Standardization Society of the Valve and Fittings Industry, Inc., Two Skyline Center, 5203 Leesburg Pike, Suite 502, Falls Church, Virginia 22014

NCPI - National Clay Pipe Institute, 1130 - 17th Street, N.W., Washington, D.C. 20036

NBS - National Bureau of Standards, Gaithersburg, Maryland 20760

NSF - National Sanitation Foundation Testing Laboratory, Incorporated, 3475 Plymouth Road, P.O. Box 1468, Ann Arbor, Michigan 48106

PDI - Plumbing and Draining Institute, 5342 Boulevard Place, Indianapolis, Indiana 46208

PPFA - Plastic Pipe & Fittings Association, 999 N. Main Street, Suite 203, Glen Ellyn, Illinois 60137

SPR - Simplified Practice Recommendations representing Recorded Recommendations of the Trade and Issue by the U.S. Department of Commerce, Washington D.C.

U.S. Department of Health and Human Services, Public Health Service, Division of Environmental Engineering, Special Engineering Services Branch, Washington, D.C. 20201

U.S. EPA - United States Environmental Protection Agency, Water Supply Division, Region V, Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin, 230 S. Dearborn Avenue, Chicago, Illinois 60604

d) Identification of Materials. Each length of pipe, and each pipe fitting, trap, fixture, and device used in a plumbing system shall have cast, stamped, or indelibly marked on it the maker's mark or name, the weight, type and classes of the product, by the approved standard that applies.

Section 890.520 Special Materials

a) Lead. Sheet lead shall not be less than the following:

1) For safe pans - not less than four (4) pounds per square foot.

2) For flashings of vent terminals - not less than three (3) pounds per square foot.

3) Lead bends and lead traps shall not be less than one-eighth inch (1/8") thickness.

4) Lead waste pipe shall be at least XL weight as designated in federal specification number WWP-325.

5) Lead water service pipe shall be classified according to maximum working pressures, XXS for 100 psi, XS for 75 psi as designated in federal specification number WWP-325.

b) Copper. Sheet copper shall not be less than the following:

1) Safe pans - 12 ounces per square foot.

2) Vent terminal flashings - eight (8) ounces per square foot.

c) Caulking Ferrules. Caulking ferrules shall be manufactured from red brass and shall be in accordance with the following:

Pipe Sizes Inches	Inside Diameter Inches	Length Inches	Minimum Weight Each
2	2-1/4	4-1/2	1 lb. 0 oz.
3	3-1/4	4-1/2	1 lb. 12 oz.
4	4-1/4	4-1/2	2 lb. 8 oz.

d) Soldering Bushings. Soldering bushings shall be of red brass in

accordance with the following table:

Pipe Sizes Inches	Minimum Weight Each
1-1/4	6 oz.
1-1/2	9 oz.
2	14 oz.
2-1/2	1 lb. 6 oz.
3	2 lb. 0 oz.
4	3 lb. 8 oz.

e) Floor Flanges. Floor flanges for water closets or similar fixtures shall not be less than one-eight inch (1/8") thick for brass; one-fourth inch (1/4") thick and not less two-inch (2-inch) caulking depth for cast iron galvanized malleable iron. Flanges shall be soldered to lead bends, or shall be caulked, soldered or threaded to other metal. Plastic flanges shall be solvent welded. Closet screws and bolts shall be brass.

f) Cleanouts. Cleanout plugs shall have raised or counter sunk heads. Where raised heads will cause a tripping hazard, counter sunk heads shall be used.

Section 890.530 Plastic Pipe, Tubing and Fittings for Potable Water Piping

See Exhibit G: Table D

a) Plastic - Commingling. There shall be no commingling of plastic materials within the same plumbing system except through the use of proper adaptors.

b) Plastic Pipe. Plastic pipe shall not be installed in any tunnel or chase which contains uninsulated hot water, hot air or steam piping.

Section 890.540 Plastic Pipe and Fittings for Drainage and Vent Piping Within and without the Building

See Exhibit G: Table D

Section 890.550 Alternate Material and Methods

a) Approval. Any person desiring to install or use material, equipment, fixtures, appurtenances, not listed in Exhibit G: Table D shall, prior to each installation, submit to the Department a request in writing and evidence that such plumbing material, equipment, fixtures, appurtenances, is of a design and quality acceptable for a plumbing installation. Approval or disapproval of such requests

shall be in writing. Such installation shall be subject to periodic inspection by a representative of the Department. If such inspection verifies that the alternate item is no longer suitable, such item shall be removed.

b) Tests. When there is insufficient evidence to substantiate the proposal to use alternate material, equipment, fixtures, or appurtenances, the Department shall require documentary proof, including engineering data, in order to make a decision as to whether the proposed use of an alternate item meets the code. Expenses involved in such tests shall not be the responsibility of the State of Illinois Department of Public Health.

c) Repeated Tests. The Department may require additional tests if there is reason to believe that an alternate material, equipment, fixture or appurtenances has apparently failed and its continued use as a part of a plumbing system is questionable insofar as compliance with the code. Expenses involved in retesting shall not be the responsibility of the State of Illinois Department of Public Health.

Section 890.560 Approved Materials

See Exhibit G: Table D

SUBPART D: JOINT AND CONNECTIONS

Section 890.610 Tightness

Joints and Connections. Joints and connections shall be gas-tight and water-tight. Joints at the roof, around vent pipes, shall be made water-tight by the use of flashing material. Exterior wall openings shall be made water-tight.

Section 890.620 Types of Joints

a) Caulked Joints.

1) Caulked joints for cast iron bell-and-spigot pipe shall be firmly packed with oakum or hemp and filled with molten lead not less than one inch (1") deep and firmly caulked not to extend more than one-eighth inch (1/8") below the rim of the hub. Paint, varnish, or other coatings shall not be permitted on the jointing material until after the joint has been tested and approved. See Exhibit B, Illustration H.

2) Caulked Joints - Water Piping System. Material shall consist of fiber rope, paper rope, or rubber rings. Material shall be handled so as to prevent contamination before and during use.

b) Threaded Joints - Screwed Joints. Threaded joints shall conform to American National Taper Pipe Thread, ANSI B2.1-1968. All burrs shall be removed; pipe ends shall be reamed or filed to size of the bore; all chips shall be removed. Pipe joint compound shall be insoluble in water and non-toxic.

c) Wiped Joints. Joints in lead pipe or fittings, or between lead pipe of fittings and brass or copper pipe ferrules, solder nipples, or traps shall be full-wiped joints. Wiped joints shall have exposed surface on each side of the joint not less than three-fourth inch (3/4") and at least as thick as the material being joined. Wall or floor flange lead-wiped joints shall be made by using a lead ring or flange placed behind the joints at wall or floor. Joints between lead pipe and cast iron, steel or wrought iron shall be made by means of a caulking ferrule, soldering nipple, or bushing.

d) Soldered Joints. Surface to be soldered shall be cleaned bright. The joints shall be properly fluxed (lead free) and made with approved lead free solder. Joints in copper water tubing shall be made by the appropriate use of approved cast bronze or wrought copper pressure fittings, properly soldered together. For approved fittings and solder see Exhibit G, Table D. All solders or flux containing more than 0.2% lead shall bear a warning label which states that the solder or flux is not approved for private or potable water use as required by Section 4 of the Federal Hazardous Substances Act (15 U.S.C. 1263). Use of this product in the making of joints or fittings in any private or public potable water system is prohibited. No part of a DWV (drain, waste and vent) system shall be joined or fitted with a solder or flux containing more than 0.2% lead.

e) Flared Joints. Flared joints for plastic pipe and tubing and soft copper water tubing shall be made with approved fittings. The tubing shall be expanded with a proper flaring tool. See Exhibit B, Illustration I.

f) Hot-Poured Joints. Hot-poured compound for clay or concrete sewer pipe shall not be water absorbent and when poured against a dry surface, shall have a bond of not less than 100 psi. All surfaces of the joint shall be cleaned and dried before pouring. If wet surfaces are unavoidable, a suitable primer shall be applied. Compound shall not soften sufficiently to destroy effectiveness of the joint when subjected to a temperature of 160 degrees Fahrenheit, not be soluble in any of the waste carried by the drainage system. Approximately 25 percent of the joint space at the base of the socket shall be filled with jute or hemp. A pouring collar rope or other device shall be used to hold the hot compound during pouring. Each joint shall be poured in one operation until the joint is filled. Joints shall not be tested until one (1) hour after pouring.

g) Precast Joints. Precast collars shall be formed in both the spigot and bell of the pipe in advance of use. Collar surfaces shall be conical with side slopes of 3 degrees with the axis of the pipe and the length shall be equal to the depth of the socket. Prior to making joint contact, surfaces shall be cleaned. When the spigot end is inserted in the collar, it shall bind before contacting the base of the socket. Material shall be inert and resistant to both acids and alkalines.

h) Brazed Joints. Brazed joints shall be made by first cleaning the surface to be joined down to the base metal, applying flux approved for such joints and for the filler metal to be used, and making the joints by heating to a temperature sufficient to melt the approved brazing filler metal on contact. See Section 890.630(b).

i) Cement Mortar Joints. Except for repairs, cement mortar joints are prohibited.

j) Burned Lead (Welded). Every burned (welded) joint shall be made in such manner that the two or more sections to be joined shall be uniformly fused together into one continuous piece. The thickness of the weld shall be at least as thick as the lead being joined.

k) Asbestos Cement Sewer Pipe Joints. Joints in asbestos cement pipe shall be made with sleeve couplings of the same composition as the pipe sealed with rubber rings except that asbestos cement perforated pipe shall be made with a sleeve coupling which fits on the spigot end of the pipe.

l) Bituminized Fiber Pipe Joints. Joints in bituminized fiber pipe shall be made with tapered type couplings of the same composition as the pipe. Joints between bituminized fiber pipe and metal pipe shall be made by means of an adaptor coupling caulked as required in subsection (a) above.

m) Plastic Pipe Joints.

1) Every joint in plastic piping shall be made with approved fittings by either solvent welded or fusion welded connections, compression fittings, approved insert fittings and metal clamps and screws of corrosion resistant material, or threaded joints. See Exhibit G, Table D for approved pipe, fittings and solvent.

2) Joints and Fittings in Plastic Pipe. Potable water piping fittings and joints shall be in accordance with the manufacturer's recommendations subject to the following: See Exhibit G, Table D.

A) Polyethylene (PE) pipe shall be installed only with compression fittings, insert and clamp type fittings or thermal welded joints and fittings. All clamps shall be of corrosion resistant material. The inside diameter (I.D.) of any insert fitting will not be allowed to be below the minimum allowable size for water service/distribution piping. (See Exhibit G, Table H for minimum allowable sizes for water service/distribution piping).

B) Polyvinyl chloride (PVC) pipe shall be installed with solvent welded or flanged joints only. The pipe shall not be threaded. Transition to metallic or other piping shall be made with the use of adaptor fittings. The fittings shall be molded from the same basic material as the pipe. The solvent cement used shall be specific for polyvinyl chloride piping.

C) Polybutylene (PB) pipe shall be installed only with insert and clamp type fittings, compression type, flanged type, or thermal welded joints and fittings. All clamps shall be of corrosion resistant material. The inside diameter (I.D.) of any insert fitting shall not be less than the minimum allowable size for water service/distribution piping. (See Exhibit G, Table H and Table O for minimum allowable sizes for water service/distribution piping).

3) Joints in Plastic Drainage. Joints in plastic drainage or vent piping within the building shall be solvent welded, except that threaded or flanged joints may be used with adaptor fittings. The solvent cement shall be specific for the type of piping material. O-ring expansion joints are acceptable.

n) Ground Joint Connections. Ground joint connections (when accessible) may be used on the inlet or outlet side of a fixture trap or within the trap seal. Ground joint connections shall not be used in any inaccessible drainage piping.

o) Cold-Poured Joints. Cold-poured bituminous or resin joints for clay or concrete sewer pipe shall not be used in piping below the water table.

p) No-Hub Soil Pipe Joints. Joints for no-hub cast iron soil pipe shall be made with a neoprene gasket covered by a corrugated metal stainless steel shield secured by two (2) or more stainless steel bands or clamps. The shield and clamps shall be corrosion resistant and homogenous throughout. The joint and materials shall comply with ASTM C564-8 and CISPA 310-78.

q) Compression Type Joints.

1) Compression type joints for hub and spigot cast iron soil pipe shall be made with neoprene insert gaskets in accordance with ASTM C56476. The pipe shall comply with the specifications contained in ASTM A-74 with regard to hub and spigot dimensions and tolerances. See Exhibit B, Illustration J.

2) Compression type joints for copper water tube shall be made with brass ferrules and ground joint connections.

r) Grooved Type Mechanical Couplings. Grooved type mechanical couplings shall comply with the requirements of AWWA specification C606-78 push-on type couplings. All pipe and fitting ends shall be grooved as required by the manufacturer's standard. Gaskets for use in potable water piping shall be fabricated from material that is non-toxic, durable and impervious.

Section 890.630 Special Joints

a) Copper Tubing to Screwed Pipe Joints. Joints from copper tubing to threaded pipe shall be made by the use of a cast bronze or wrought copper adaptor fitting. The joint between copper tubing and the fitting shall be soldered or flared.

b) Welding or Brazing. Brazing or welding shall be in accordance with the provisions of the Section 6 of the Code for Pressure Piping, ANSI B3.1.1.

c) Slip Joints. In drainage and water piping, slip joints may be used on the inlet side of the trap or in the trap seal, and on the exposed fixture supply. Slip joints shall not be used in any inaccessible piping.

d) Expansion Joints. Expansion joints must be accessible and may be used where necessary to provide for expansion or contraction of the piping. The expansion joint material shall conform with the type piping on which it is installed.

e) Ground Joint Brass Connection. Ground joint brass connections may be used on the inlet or outlet side of a fixture trap or within the trap seal. Ground joint brass connections shall not be used in any inaccessible drainage piping.

f) Compression type couplings shall not be used in unexposed water piping except for water services, water meter yokes and stop box connections.

g) Grooved Type Mechanical Couplings. Grooved type mechanical couplings, in accordance with Section 890.620(r), may be used in potable water and roof drain piping. It shall not be used in waste, soil or vent piping.

h) Plastic Pipe to Non-Plastic Pipe Joints. Joints between plastic pipe and non-plastic pipe shall be made only by one of the following methods:

1) Pressure piping.

A) Approved insert fittings.
B) Threaded adaptors.
C) Flanges.
D) Flared fittings.

2) Non-pressure piping - Drain Waste Vent (DWV)

A) Caulked lead joints with caulked adaptors.
B) No-hub soil pipe couplings with approved adaptor having a raised bead.
C) Compression type joints for hub and spigot cast iron pipe.
D) Threaded adaptors.

Section 890.640 Use of Joints

a) Clay Sewer Pipe. Joints in vitrified clay pipe or between such pipe and metal pipe shall be made with a neoprene gasket and stainless steel bands or as provided in Section 890.620(f), (g) or (o), if applicable.

b) Concrete Sewer Pipe. Joints in concrete sewer pipe or between such pipe and metal pipe shall be made with a neoprene gasket and stainless steel bands or as provided in Section 890.620 (f), (g) or (o), if applicable.

c) Cast Iron Pipe. Joints in cast iron water supply pipe shall be made in accordance with Section 890.620(a) and (b) or shall be mechanical joints in accordance with ANSI A21.12-71. Joints in cast iron soil pipe shall be made in accordance with Section 890.620(a), (b), (p) or (q).

d) Screw Pipe to Cast Iron. Joints between wrought iron, steel, brass, or copper pipe, and cast iron pipe shall be either caulked or threaded joints which are made as provided in Section 890.620 (a) or (b) and shall be made with approved adaptor fittings.

e) Lead to Cast Iron, Wrought Iron or Steel. Joints between lead and

cast iron, wrought iron, or steel pipe shall be made by means of wiped joints to a caulking ferrule, soldering nipple, or brushing as provided in Section 890.620(c).

f) Copper Water Tube. Joints in copper tubing shall be made either by the appropriate use of cast bronze or wrought copper, pressure fittings properly soldered or by means of compression or flared joints as provided in Section 890.620(d), (e), and (q)(2). Flared joints and compression fittings shall not be installed underground except for water services, water meter yokes and stop box connections.

g) Plastic Pipe. Joints between plastic pipe and non-plastic material shall be made only by the utilization of an appropriate type adaptor as provided in Section 890.620(m) and 890.630(h).

h) Building Sewer Connections. An elastomeric coupling seal conforming to ASTM C425 (1982), ASTM 443 (1979), ASTM 564 (1982), ASTM D-1869 (1978), or ASTM F-477 (1981), or ASTM D-792 (1979), D-2240 (1981), D-412 (1980), tests, may be used to adapt any two building sewer pipes for material to material, reducing size or transition of material. The flexible couplings shall be attached to the pipe with stainless steel clamps or bolts. The manufacturer's recommended method of installation shall be strictly adhered to.

Section 890.650 Unions

Unions may be used in the drainage and venting system when accessibly located above ground. Unions shall be installed in a water supply system within 5 feet of regulating equipment, water heaters, water conditioning tanks, water conditioning equipment, pumps, and similar equipment which may require service by removal or replacement except where small equipment may be unscrewed, only one union shall be required.

a) Drainage System. Unions may be used in the trap seal and on the inlet and outlet side of the trap. Unions shall have metal to metal seats except that plastic unions may have plastic to plastic seats.

b) Water Supply System. Unions in the water supply system shall be metal to metal with ground seats, except that plastic to metal unions may utilize durable, non-toxic, impervious gaskets. Fittings between dissimilar metals may be dielectric type.

Section 890.660 Water Closet and Pedestal Urinal

Fixture connections between drainage pipes and water closets, floor outlet service sinks and pedestal urinals, and earthenware trap standards shall be made by means of brass, copper, hard lead, plastic, or iron flanges; caulked, soldered, screwed or solvent welded to the drainage pipe. Flanges of hard

lead, plastic and iron flanges for no-hub or compression joints shall be secured to the floor. The connection shall be bolted, with a gasket, washer or setting compound, between the earthware and the connection. The floor flange shall be set on a approved firm base. The use of putty or non-drying plumber's putty manufactured specifically for plumbing installation is acceptable.

Section 890.670 Prohibited Joints and Connections

a) Drainage System. Any fitting or connection which has an enlargement, chamber, or recess with a ledge, shoulder, or reduction of pipe area that offers an obstruction to flow through the drain is prohibited.

b) Fittings or Connections. No fitting or connection that offers obstruction to flow shall be used. In existing buildings only a flow control valve or device may be connected to the fixture drain and shall not be considered as an obstruction. The enlargement of a three (3) inch closet bend or stub to four (4) inches shall not be considered an obstruction.

Section 890.680 Waterproofing of Openings

Joints at Roof. Joints at the roof, around vent pipes shall be made water-tight by the use of flashings.

Section 890.690 Increasers and Reducers

Different Sizes. Where different sizes of pipes or pipes and fittings are to be connected, the proper size increasers, reducers or reducing fittings shall be used between the two sizes.

SUBPART E: TRAPS AND CLEANOUTS

Section 890.710 Traps

a) Fixture Traps. All directly connected plumbing fixtures, except those having integral traps, shall be separately trapped by a water seal trap, placed as close to the fixture outlet as possible.

1) Provided that, a combination plumbing fixture may be installed on one trap, if one compartment is not more than six (6) inches deeper than the other and the waste outlets are not more than 30 inches apart.

2) Provided that, one trap may be installed for not more than one three (3) compartment sink or laundry tray, if the waste outlets are not more than 30 inches apart. See Exhibit C: Illustration A.

b) Distance of Trap to Fixture. The developed length from the fixture outlet to the trap weir shall not exceed 24 inches, except when an interceptor is used as a trap, it shall be located as close as possible to the fixture and in no case shall the maximum developed length from the fixture outlet to the inlet of the interceptor exceed five (5) feet. See Exhibit C: Illustration B. The standpipe for an automatic clothes washer shall not exceed forty-eight (48) inches above the inlet of a trap.

Section 890.720 Type and Size of Traps and Fixture Drains

a) Trap Size. The size (normal diameter) of trap for a given fixture shall be sufficient to drain the fixture rapidly. See Exhibit G: Table I for minimum size of traps. No trap shall be larger than the drainage pipe into which it discharges.

b) Relation to Fixture Drains. No trap shall be larger than the fixture drain to which it is connected.

c) Type of Traps. Traps shall have a uniform interior, a smooth waterway, and shall be without partitions or movable parts. The trap seal shall be non-adjustable. See Exhibit C: Illustration C.

d) Drum Traps

1) Drum traps shall be three (3) or four (4) inches in diameter and shall be provided with a water seal of not less than two (2) inches.

2) Trap cleanout shall be one size less than the trap diameter.

Section 890.730 General Requirements

a) Trap Seal. Each trap shall have a water seal of not less than two (2) inches and not more than four (4) inches except where a deeper seal is required to prevent the loss of the trap seal by evaporation.

b) Trap Cleanouts

1) Each fixture trap, except those cast integral or in combination with fixtures in which the trap seal is readily accessible or except when a portion of the trap is readily removable for cleaning purposes, shall have an accessible trap screw of ample size protected by this water seal. (Exception-see subsection (b)(4)). The screw shall be of brass or other non-corrosion type material. See Exhibit C, Illustration D.

2) Cleanouts shall be made tight with threaded cleanout plug and approved washer.

3) When a P-trap is used on a bath waste, it shall be directly below the tub overflow. The overflow shall be fastened to the tub by means other than the face plate. Face plates shall be clearly marked, "Cleanout".

4) A P-trap on a plumbing fixture which is not accessible may be installed without a cleanout plug or having a portion of the trap readily removable, provided there is access within three (3) feet to rod the trap.

c) Trap Level and Protection. Traps shall be set true with respect to their water seals and where necessary, they shall be protected from freezing.

d) Traps Underground. Underground traps shall be provided with accessible and removable cleanouts, except for separate "P" traps into which floor drains, urinals and like fixtures with removable drain strainers discharge.

e) Building (House) traps. No trap shall be installed at the foot of a soil or waste stack or in a building drain.

f) Prohibited Traps (see Exhibit C, Illustration E)

1) Traps which depend upon the action of movable parts for their seal.

2) Full "S" traps. Exception: Water closet and similar fixtures which depend on self-siphonage for their proper operation.

3) Bell traps.

4) Crown vented traps.

5) Unvented running traps.

6) Fixtrues with concealed interior partitioned traps. Exceptions: fixtures with integral traps constructed or vitrified earthenware and penal institutional fixtures with integral traps constructed of ferrous material.

g) Double trapping. No fixture shall be double trapped. When a fixture is double trapped, it will become air bound and impair its operation.

Section 890.740 Pipe Cleanouts

a) Location of Cleanouts

1) Cleanouts shall be not more than 50 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines of four (4) inches nominal diameter or less. Cleanouts shall be not more than 100 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines of over four (4) inches to 10 inches nominal diameter. Cleanouts shall not be more than 150 feet apart including the developed length of the cleanout pipe in horizontal drainage lines over 10" nominal diameter. For underground drainage lines of over 10 inches nominal diameter, manholes shall be provided and located at intervals of not more than 150 feet.

2) When it is necessary to conceal a cleanout plug, a covering plate or access door shall be provided.

3) A test tee at the base of the stack may be used as a cleanout.

4) A full size cleanout shall be located within five (5) feet of the building foundation, inside or outside, in direct line with the building drain and sewer.

b) Change of Direction. A cleanout or manhole shall be installed at each change of direction of the horizontal building drainage system greater than 60°; the total of the fittings between cleanouts or manholes shall not exceed 120°. A manhole within a building shall be provided with an iron cover which shall be securely bolted in place and made gas and water-tight with a soft metallic gasket.

c) Larger Pipes. See subsection (a) above.

d) Underground Drainage. Cleanouts, when installed on an underground drain, shall be extended to or above the finished grade level directly above the place where the cleanout is installed; or may be extended to outside of the building when necessary. See Exhibit C: Illustration F.

e) Concealed Piping. Cleanouts on concealed piping shall be extended through and terminate flush with the finished wall or floor; or pits or chases may be left in the wall or floor, provided they are of sufficient size to permit removal of the cleanout plug and proper cleaning of the system. See subsection (a) above. See Exhibit C: Illustration G.

f) Base of Stacks. A cleanout shall be provided at, or no more than four (4) feet above, the base of each vertical waste or soil stack. See Subsection (a) above.

g) Building with Slab Floors. For building with a floor slab, or with

less than 36 inch crawl space under the floor, or where a stack cleanout is not accessible, the following shall be provided in lieu of a cleanout at the base of the stack. The building drain shall be extended to the outside of the building and terminated in an accessible cleanout, or an accessible 2 way cleanout may be installed in the building drain downstream from the stack provided that such cleanout complies with Subsection (a) and (b) above and further provide that no other drainage pipe connects to such pipe inside the walls of the building except at right angles and such drainage pipe has its own cleanout at the base of the stack or extended out the building.

h) Direction of Flow. Every cleanout shall be installed so that the cleanout opens in a direction opposite to the flow of the drainage line or at right angles thereto except as permitted in Subsection (g) above.

i) Cleanout Plugs. Cleanout plugs shall not be used for the installation of a plumbing fixture or as a floor drain.

Section 890.750 Size of Cleanouts

The minimum size of drainage cleanouts shall be as shown in Exhibit G: Table E.

Section 890.760 Cleanout Clearances

a) Larger Pipes. Cleanouts on three (3) inch or larger pipes shall be so installed that there is a clearance of not less than 18 inches for the purpose of rodding. See Exhibit C: Illustration H.

b) Small Pipes. Cleanouts smaller than three (3) inches shall be so installed that there is a 12-inch clearance for rodding. See Exhibit C: Illustration H.

c) Concealment. Where it is necessary to conceal a cleanout plug, a covering plate or access door shall be provided which will permit ready access to the plug. See Section 890.740(a) and (e).

Section 890.770 Cleanout Equivalent

Fixture Trap. A fixture trap, readily removable and without disturbing concealed roughing work, is accepted as a cleanout equivalent, if there is no more than one 90° bend on the line to be rodded.

Section 890.780 Acid-Proof Traps

Where a vitrified clay or other brittleware, acid-proof trap is installed underground, it shall be embedded in concrete to a thickness of six (6) inches

from the bottom and side of the trap.

SUBPART F: INTERCEPTORS-SEPARATORS AND BACKWATER VALVES

Section 890.810 Interceptors and Separators Required

a) Interceptors (including grease, oil, and sand interceptors, etc.) shall be provided for the proper handling of liquid waste containing grease, flammable waste, sand and any other ingredients that could be harmful to the building drainage system, the public sewer or processes involved in the treatment of sewage at a sewage treatment plant.

b) No waste other than those requiring treatment or separation shall be discharged into an interceptor or separator.

c) Prohibited Types. Water cooled or operated interceptors are prohibited.

Section 890.820 Grease Interceptors Required

All new or altered installations serving institutions or commercial establishments in which grease, fats, culinary oils, or similar waste products from kitchens or food processing areas, or in which grease, fats, or culinary oils are wasted in connection with utensil, vat, dish, or floor cleaning processes shall install grease interceptors. All waste lines and drains carrying culinary oil, grease, or fats in the above type establishment shall be directed to one or more interceptors before connecting to the plumbing system. It is recommended that interceptors be located outside the building and shall be accessible for maintenance purposes. See Exhibit C, Illustration I and J.

a) Minimum Required Features:

1) Flow Rate. The flow rate of the interceptors shall be sufficient to handle the maximum demand of the connected system.

2) Material and Covers. Grease interceptors shall be constructed of durable, corrosion-resistant materials and shall have water-tight covers securely fastened in place.

3) Minimum Size. A grease interceptor installed on the same floor as the fixture shall have one-half the liquid holding capacity of the fixture. A grease interceptor located on a floor below the fixture shall have sixty percent the liquid holding capacity of the fixture. To determine the liquid holding capacity in gallons of a plumbing fixture, multiply the length by the width by the height in inches, and divide by 231. Where two (2) or

more sinks or receptacles are connected to a interceptor the flow rate in gallons per minute shall be based on the simultaneous use of such sinks or receptacles.

b) Prohibited Discharge. No grease interceptor shall receive the discharge from a food waste grinder or a commercial dish-washing machine.

c) Prohibited Type. Water cooled grease interceptors are prohibited.

d) Residential Units. A grease interceptor is not required for individual dwelling units or any private living quarters.

Section 890.830 Gasoline, Oil and Flammable Liquids, Interceptors/Separators

Interceptors/Separators Required.

a) Commercial vehicle storage or repair garages and gasoline stations with grease racks or pits and all facilities which have oil and/or flammable waste shall be provided with floor drains. A minimum of one (1) floor drain per working stall or one (1) floor drain for each five hundred (500) square feet shall be installed. Where trench drains are used to carry wastes to the gas/oil interceptor, the trench drain shall extend the entire length of the work (stall) area and have a trapped and vented opening no less than every forty (40) lineal feet. Floor drains provided for such areas shall be intercepted by an approved interceptor or a series of three (3) basins before discharging into the building drainage system and shall be of cast iron, steel, or other equally durable fiberglass materials suitable for gas and oil. Fiberglass interceptors shall not be used for receiving any substance other than gas and oil. Each interceptor or basin shall be provided with a heavy metal cover which shall be bolted into place and made gas and water-tight. Each interceptor and, if provided with separate compartments, each compartment and basin shall be provided with a vent of not less than two (2) inches. Two or more vents may be connected to a header which shall be six (6) inches or higher than the lowest floor drain served. The vent shall extend independently to the outer air. The outlet of an interceptor or each basin shall have a seal of not less than eighteen (18) inches. The inlet of the interceptor or the first basin shall be trapped except when floor drains are individually trapped. In areas of garages where motor fuels are dispensed or where motor vehicles are serviced, each floor drain shall be properly trapped. Floor drains above the level of the interceptor or basins shall connect to a stack extending independently to the outer air. Interceptors must be maintained to prevent loss of gas, oil, etc. Interceptors utilizing an automatic draw off feature must install a separate U.L. approved underground storage tank or storage tank integral with the

interceptor.

b) In all motor vehicle wash racks, drainage shall discharge into a water-tight catch basin not less than 36 inches in diameter, or three feet by two and one half feet rectangle. The bottom shall not be less than 27 inches below the invert of the outlet pipe. The outlet pipe shall be trapped with a catch basin trap and shall be of cast iron or schedule 40 plastic with a seal of not less than six (6) inches and a cleanout of not less than four (4) inches.

Section 890.840 Sand Interceptors

Commercial Installation. Sand and similar interceptors for heavy solids shall be so designed and installed as to be readily accessible for cleaning, and shall have a water seal of not less than six (6) inches.

Section 890.850 Venting of Interceptors/Separators

Interceptors and separators shall be so designed that they will not become air bound if gas-tight covers are used. Each interceptor or separator shall be properly vented. See Exhibit C: Illustration K.

Section 890.860 Accessibility of Interceptor/Separator

Each interceptor and/or separator shall be so installed as to provide ready accessibility to the cover and means for servicing and maintaining the interceptor and/or separator in working and operating condition. The use of ladders or the removal of bulky equipment in order to service interceptors and/or separators shall constitute a violation of accessibility.

Section 890.870 Interceptors Efficiency

Flow Rate. Interceptors shall be rated and approved for their efficiency as directed by the Department.

Section 890.880 Laundries

Interceptors. Commercial laundries shall be equipped with an interceptor having a removable wire basket or similar device that will prevent materials detrimental to the sewage system from passing into such system. See Exhibit C: Illustration L.

Section 890.890 Bottling Establishments

Bottling Plants. Bottling plants shall discharge their waste into an interceptor which will provide for the separation of broken glass or other similar solids, before discharging liquid waste into the drainage system. See Exhibit C: Illustration M.

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NOTICE OF PROPOSED REPEALER

Section 890.900 Slaughter Houses

Separators. Slaughtering or dressing room floor drains shall be equipped with separators.

Section 890.910 Food-Waste Grinders

a) Commercial. Where food-waste grinders are utilized, the waste shall discharge directly into the building drainage system and not through a grease interceptor.

b) Residential. Where food-waste grinders are installed for residential uses, the waste from such unit shall discharge directly into the building drainage system.

Section 890.920 Oil Interceptors

a) Requirements. All oil interceptors shall conform to requirements of subsection (b) below and Section 890.830.

b) Minimum Dimension. Oil interceptors shall have a depth of not less than two (2) feet below the invert of the discharge drain. The outlet opening of the separator shall have no less than an 18-inch water seal.

c) Motor Vehicle Servicing. Interceptors shall be required for motor vehicle servicing areas. The minimum size interceptor shall be six (6) cubic feet (45 gallon).

d) Motor Vehicle Storage. Where storage facilities are maintained, the capacity of the interceptor shall be one (1) cubic foot (one (1) cubic foot equals seven-and one-half (7 1/2) gallons) for each 100 square feet of surface to be drained, with a minimum capacity of six (6) cubic feet.

e) Special Type Interceptor. Before installing any special type of interceptor, a drawing including all pertinent information shall be submitted for approval by the Department.

Section 890.930 Backwater Valves - Sanitary System and Storm System

Backwater valves shall be installed in the building storm drain or the building drain to prevent backflow into the building, where backflow of storm water or sewage will occur. It is recommended that all building drains shall have no openings for fixture drains below the outside grade of the building. Such fixture drains where installed should drain into a pneumatic ejector or sump.

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a) Fixture Branches. Backwater valves may be installed in the branches of the building drain which receives only the discharge from fixtures located within such branch and below grade.

b) Material. Backwater valves shall have all bearing parts of corrosion resistant material.

c) Design. Backwater valves shall be so designed to insure a mechanical seal against backflow.

d) Diameter. Backwater valves, when fully opened, shall have a capacity not less than that of the pipes in which they are installed.

e) Location. Backwater valves shall be so utilized as to provide accessibility to their working parts. See Exhibit C: Illustration N.

SUBPART G: PLUMBING FIXTURES

Section 890.1010 General Requirements - Materials

Quality of Fixtures. Plumbing fixtures shall be constructed from approved material (see Exhibit G: Illustration D); have smooth, impervious surfaces, be free from defects and concealed fouling surfaces.

Section 890.1020 Alternate Materials

See Section 890.510(a).

Section 890.1030 Overflows

a) Design. When any fixture is provided with an overflow, the waste piping shall be so designed that the standing water in the fixtures cannot rise in the overflow when the stopper is closed or remain in the overflow when the fixture is emptied.

b) Connection. The overflow pipe from a fixture shall be connected on the house or inlet side of the fixture trap, except that overflows of flush tanks may discharge into the water closets or urinals served by them, but it shall be unlawful to connect such overflows with any other part of the drainage system.

Section 890.1040 Installation

a) Cleaning. Plumbing fixtures shall be installed in a manner to afford easy access for cleaning. When practical, all pipes from fixture shall be run to the nearest wall.

b) Securing Fixtures. Floor outlet fixtures shall be secured by screws

or bolts.

c) Wall-Hung Bowls. Wall-hung water closet bowls shall be rigidly supported by a concealed metal supporting member so that no strain is transmitted to the closet connection.

d) Setting. Fixtures shall be set level.

e) Water Supply Connection. Hot water shall be supplied to all plumbing fixtures which need or require hot water for their proper use and function. All mixing faucets shall have both hot and cold water connected to them with the hot water supply on the left side of the faucet. Further, no mixing faucet of standard manufacture shall be allowed that will permit internal modification for cross piping of hot and cold water connections.

Section 890.1050 Water Supply Protection

The water supply system shall be installed to prevent backflow, by the proper use of vacuum breakers, backflow preventors and/or air gaps. See Section 890.1540(c).

Section 890.1060 Prohibited Fixtures and Connections

Fixtures. Pan, valve, plunger, offset washout, latrine, frostproof, and other water closets having an invisible seal or an unventilated space or having walls which are not thoroughly washed at each discharge, are prohibited. Any water closet which might permit backflow of the contents of the bowl back into the tank is prohibited. See Exhibit D: Illustration A.

Section 890.1070 Water Closets

a) Public Use. Water closet bowls for public use shall be of the elongated type and the seat shall be of the open-front type. Exception - Facilities for the handicapped shall comply with the latest edition of "Illinois Accessibility Code (71 Ill. Adm. Code 400)," published by The Capital Development Board. See Section 890.1210(d). Water closets designed for institutional use may be used in existing intensive care facilities and intensive coronary care facilities provided the water closet swings only horizontally and has an integral trap. A water closet flushometer shall be used to flush the fixture.

b) Water Closet Tanks. Water closet tanks shall have a flushing capacity sufficient to properly flush the water closet bowls with which they are connected.

c) Ballcocks. Ballcocks for flush tanks shall be of the anti-siphon

type, properly installed, and have a provision for trap refill.

d) Flushing Device. The flush-valve seat in all water closet tanks shall be one (1) inch or more above the flood rim of the closet bowl so that the flushing-valve pipe is in a separate compartment of the closet tank with a hole in the bottom of the compartment.

e) Flushometer Valve. flush valves shall be so installed that they will be readily accessible for repairing. When the valve is operated, it shall complete the cycle of operation automatically, opening fully and closing positively under the service pressure. At each operation the valve shall deliver water in sufficient volume and at a rate that will thoroughly flush the fixture and refill the fixture trap. Means shall be provided for regulating flush-valve flow. The activating handle, button or mechanism of the flush valve in public restrooms shall be a minimum of 22 inches above the overflow of the bowl. Exception - Facilities for the handicapped shall comply with the latest edition of "Illinois Accessibility Code." See Section 890.1210(d). The activating handle, button or mechanism of a flush valve for any handicapped water closet shall be at least ten (10) inches above the rim of the water closet bowl rim. Not more than one shall be provided by an approved vacuum breaker. See Sections 890.1050 and 890.1550(c).

f) Seats. Water closets shall be equipped with seats of smooth, non-absorbent material; all seats of water closets provided for public use shall be of the open-front type. Exception - Facilities for the handicapped shall comply with the latest edition of "Illinois Accessibility Code." See Section 890.1210(d). water closets with integral seats shall not be installed for public use, but may be installed in certain institutions and prisons provided such installations are approved, in writing, prior to installation by the Department or other authority having jurisdiction. No water closet seat shall be more than one and one half (1 1/2) inches thick.

g) Surrounding Materials. Where water closets are installed for public use, the flooring under the fixture base extending to at least 18 inches from the front and both sides of the closet, and extending to the wall from the back of the water closet, shall be of non-absorbent material.

h) A flushometer tank (ASSE 1037-1986) shall be used only with a water closet bowl specifically designed for that type flushing device.

Section 890.1080 Urinals

a) Automatic Flushing Tank.

1) Tanks flushing more than one (1) urinal shall be automatic in operation and sufficient capability to provide the necessary volume of water to flush and properly cleanse all urinals simultaneously, not less than four (4) times per hour. One properly sized, automatic flush tank may serve one, but not more than a battery of three, washout urinals.

2) Float Valves. Float valves or ballcocks for flush tanks shall be of the anti-siphon type, properly installed, and have a provision for trap refill if serving a urinal incorporating a reverse trap.

b) Urinal Flush Valves. No valve shall be used to flush more than one (1) blow-out, siphon-jet or pedestal urinal. One (1) properly sized automatic flush valve may serve one (1), but not more than a battery of three (3) washout urinals. The water supply shall be not less than three quarter (3/4) inch to each washout urinal spud. Protection against backflow shall be provided by an approved vacuum breaker. See Sections 890.1050, 890.1540(c), and 890.1550(a), (b) and (c).

c) Trough Urinals. Trough urinals are prohibited.

d) Backflow Protection. All urinals shall be protected against backflow. See Section 890.1540(c).

e) Surrounding Materials. When urinals are installed for public use, the wall and floor space to a point 18 inches in front of the urinal lip and four (4) feet above the floor, and at least 18 inches to each side of the urinal, shall be of nonabsorbent material.

Section 890.1090 Strainers and Fixture Outlets

a) Metal Strainers. All plumbing fixtures, other than water closets and urinals with integral traps and a sink outlet having a disposal unit shall be provided with metal strainers. Pop-up waste shall be considered as a strainer.

b) Bathtubs - Waste Outlets. Bathtubs shall have waste outlets not less than one and one-half (1 1/2) inches in diameter. The waste outlet opening may have an open strainer or stopper.

Section 890.1100 Lavatories

a) Waste Outlets. Lavatories shall have waste outlets not less than one and one-quarter (1 1/4) inches in diameter. Wastes may have open strainers or may be provided with stoppers.

b) Lavatory Faucets. All lavatory faucets shall meet the requirements as specified in Exhibit G: Table G, "Minimum Air Gaps For Plumbing Fixtures."

Section 890.1110 Shower Receptors and Compartments

a) Shower. Shower compartments, except those built directly on a slab floor or having receptors constructed of precast stone, terrazzo, concrete, molded stone, or molded fiberglass, shall have a lead or copper shower pan or the equivalent thereof. All sides of the shower pan shall have a turn-up of at least two (2) inches above the finished floor level. Precast molded receptors shall have a minimum of one-quarter (1/4) of an inch thick flange. Traps shall be so constructed that the pan may be securely fastened to the trap at the seepage entrance, making a water-tight joint between the pan and the trap. Shower receptacle waste outlets shall not be less than two (2) inches in diameter and have a removable strainer.

b) On the Ground. Shower receptors built on the ground shall be constructed of dense, non-absorbent and noncorrosive type material and shall have smooth, impervious surfaces, or as provided in subsection (a) above.

c) Dimensions. Shower compartments shall have not less than 1,024 square inches of floor area and, if rectangular, square, or triangular in plan, shall be not less than 30 inches in shortest dimension, excluding the threshold.

d) Walls. Shower compartments shall have walls constructed of durable, smooth, nonabsorbent, noncorrosive and water proof materials.

e) Joints. Built-in tubs with overhead showers shall have waterproof joints between the tub and waterproof walls.

f) Public or institution showers. Floors of public shower rooms shall be drained in such a manner that no waste water from any bather will pass over areas occupied by other bathers. This will not prohibit the use of column showers.

Section 890.1120 Sinks

a) Waste Outlets. Kitchen sinks shall be provided with waste outlets not less than one and one-half (1 1/2) inches in diameter. Other special purpose sinks such as bar sinks, lab sinks, and dipper wells may have smaller waste outlets. Waste outlets shall be of the flat or basket (cup) strainer type and the basket strainer may be equipped with a remote control pop-up.

b) Food Grinders. Sinks in which food grinders are installed shall have a waste opening not less than three and one-half (3-1/2) inches in diameter.

Section 890.1130 Food - Waste - Grinder Units

a) Separate Connections. Food-waste-disposal units shall be connected and trapped separately from any other fixture or compartment. Dishwashers shall not discharge into food waste disposal units. Units amy have either automatic or hand-operated water supply control. See Section 890.1540.

b) Grease Interceptors. No food-waste-grinder shall be connected through a grease interceptor.

c) Commercial-Type Grinders. Commercial-type food-grinders shall be provided with not less than two (2) inch waste line. Each unit shall be trapped and vented. See Exhibit D: Illustration B and C.

Section 890.1140 Drinking Fountains

a) Design and Construction. Drinking fountains shall conform to the standard Specifications for Drinking Fountains (ANSI Z4.2-1942).

b) Protection of Water Supply.

1) Stream projectors shall be so assembled as to provide an orifice elevation as specified by the standards Air Gaps in Plumbing Systems (ANSI A112.1.2) and Backflow Preventers in Plumbing Systems (ANSI A112.1) as follows:

2) All drinking fountain nozzles, including those which may at times extend through a water surface with an orifice not greater than 7/16 (0.440) inch diameter or 0.150 square inch area, shall be placed so that the lower edge of the nozzle orifice is at an elevation not less than 3/4 inch above the flood level rim of the receptacle.

3) The 3/4 inch elevation shall also apply to nozzles with more than one orifice, provided that the sum of the area of all orifices shall not exceed the area of a circle 7/16 inch in diameter.

c) Material. The fountain shall be constructed of impervious material such as vitreous china, porcelain, enameled cast iron, stainless steel, other metals or stoneware. See Section 890.1010.

d) Installation. The jet of the fountain shall issue from a nozzle of

non-oxidizing, non-toxic, impervious material set at an angle from the vertical such as to prevent the return of water in the jet tot he orifice or orifices from whence the jet issues. The nozzle and every other opening in the water pipe or conductor leading to the nozzle shall be above the edge of the bowl, so that such a nozzle or opening cannot be flooded in case a drain from the bowl of the fountain becomes clogged.

e) Protection. The end of the nozzle shall be protected by non-oxidizing, non-toxic, impervious guards to prevent the mouth and the nose of the user from coming into contact with the nozzle. Guards shall be so designed that the possibility of transmission of communicable disease by touching the guard is eliminated. See Exhibit D: Illustration D.

f) Spattering. The inclined jet of water from the nozzle shall not touch the guard and thereby cause spattering.

g) Cleansing. The bowl of the fountain shall be so designed and proportioned as to be free from corners which would be difficult to clean or which would collect dirt.

h) Splashing. The bowl of the fountain shall be so proportioned as to prevent unnecessary splashing at a point where the jet of water falls into the bowl.

i) Traps. The drain from the drinking fountain shall not have a directed physical connection with a waste pipe, unless the drain is properly trapped and vented.

j) Flow Regulator. The water supply pipe for the drinking fountain shall be provided with an adjustable valve fitted with a loose key stop or an automatic valve permitting the regulation of the rate of flow of water through the fountain so that the valve manipulated by the user of the fountain will merely turn the water on or off.

k) Height. The height of the drinking fountain at the drinking level shall be such as to be most convenient for the persons for which the drinking fountain is being installed.

l) Flow. The waste opening and pipe shall be of sufficient size to carry off the waste water promptly. The opening should be provided with a strainer.

m) Special Conditions. Special conditions and certain other materials related to drinking fountains shall meet requirements as set forth in ANSI Standard A40.4-1942 and 24.2-1942, respectively.

n) Location. Drinking fountains or devices shall not be installed as an integral part of or connected to any other plumbing fixture, such as a lavatory or sink, nor shall a drinking fountain be installed in a toilet room; penal institutions excepted.

Section 890.1150 Floor Drains

Trap and Strainer. Floor drains shall be trapped and have a minimum water seal of three (3) inches and shall be provided with a removable strainer. The open area of the strainer shall be at least two-thirds (2/3) of the cross-sectional area of the drain line to which it connects. See Exhibit D: Illustration E.

Section 890.1160 Dishwashing Machines

a) Protection. Dishwashing machines shall meet requirements in Section 890.1540(c).

b) Domestic Dishwasher (Private Residence). When a domestic dishwashing machine drain line is connected to the house side of a trap from a sink, the discharge from the dishwasher shall be carried up to the underside of the spill rim of the sink. It is recommended that a dishwasher discharge through an air gap fitting above the top of the sink spill rim. See Section 890.1130(a).

c) Air Gap. Commercial dishwashing machines shall be connected through an air gap or as provided in Section 890.1410(c).

d) Hot Water. Commercial dishwashing machines or similar dishwashing equipment using hot water for sanitizing shall be provided with sufficient supply of water at 180 degrees Fahrenheit. See 77 Ill. Adm. Code 750.830(h) Food Service rules of the Illinois Department of Public Health.

Section 890.1170 Multiple Wash Sinks

a) Circular Type. Each 18 inches of wash sink circumference (circular type) shall be equivalent to one (1) lavatory. See Exhibit D: Illustration F.

b) Straight-Line Type. Multiple wash sinks of a straight-line type shall have hot and cold combination spouts not closer than 18 inches from the adjacent similar spouts and each spout shall be considered to be the equivalent of one (1) lavatory.

Section 890.1180 Garbage-Can Washers

a) Discharge. Garbage-can washers shall not discharge through a trap serving any other device or fixtures.

b) Grease Interceptor. The discharge from a garbage can washer shall be connected through a grease interceptor. See Section 890.810(c).

c) Baskets. The receptacle receiving the wash from garbage cans shall be provided with a basket or similar device to prevent the discharge of large particles into the building drainage system.

d) Connection. Water supply connection shall conform to Section 890.1540(c).

Section 890.1190 Laundry Trays and Drains

a) Waste Outlets. Each compartment of a laundry tray shall be provided with a waste outlet not less than one and one half (1 1/2) inches in diameter and with a stopper.

b) Overflow. Laundry tray overflows shall conform to the requirements of Section 890.1030(a).

c) All open site trench drains for laundry machines are prohibited. Laundry machines shall discharge into a trapped and vented outlet. (Commercial laundries see Section 890.880 and Residential laundries see Section 890.710).

Section 890.1200 Special Fixtures and/or Items Designed for a Particular Purpose

a) Water and Drain Connections. Baptistries, ornamental and lily ponds, aquaria, ornamental fountain basins and similar type constructions, when provided with water supplied from the potable water system, shall be protected from back siphonage as required in Section 890.1540(c).

b) Approval. A request for permission to install special fixtures and/or items designed for a particular purpose requiring water and waste connections not otherwise provided for in this code shall be submitted, in writing, to the Department for approval prior to installation.

c) Emergency showers and eye wash stations within a building shall be provided with a trapped and vented receptor.

Section 890.1210 Minimum Number of Plumbing Fixtures

a) Minimum Number of Fixtures. Plumbing fixtures shall be provided for the type of building occupancy and in the minimum number(s) showing in Exhibit G: Table F, "Minimum Number of Plumbing Fixtures" except as noted in footnote 6. Types of building occupancy not listed in Exhibit G: Table F shall be referred to the Department for a decision in writing concerning the minimum number and types of plumbing fixtures required, prior to construction.

b) Required Restroom Facilities.

1) Employee Restrooms

A) Restroom facilities shall be provided for all employees within each place of employment; except that kiosks with five (5) or less employees which are located in the aisle of a mall and which have access to public restrooms located within two hundred (200) feet of the kiosks, shall not be required to have employee restrooms.

B) If there are more than five working employees at any one time, separate restrooms for men and women are required. The total number of fixtures shall be based on the number of employees. (See table for requirements).

C) If there are never more than five working employees at any one time, one restroom may serve both sexes. A restroom must have one water closet and one lavatory.

2) Public Restrooms

A) Separate facilities for men and women are required when restrooms for the public are required.

B) All restaurants must have restroom facilities for the public if the food or beverage is consumed on the premises.

C) Buildings, other than restaurants, with less than 3,000 square feet gross area to be used by the public need not provide public restrooms.

D) All buildings with 3000 square feet gross area or more that allow public access must provide restrooms for the public.

3) For those facilities where the number of individuals is not determinable, the following applications will be used.

A) Assembly Units and Open/Air Assembly Units, the occupancy

content shall be based on the capacity of the rooms or spaces used for assembly purposes and shall be determined as follows:

i) In rooms or spaces with fixed seating, the occupancy content shall be the actual number of seats provided. When no divisions between seats are provided, fixed seating shall be computed at eighteen inches per person.

ii) In rooms or spaces without fixed seating, the occupancy content shall be determined by the dividing of the net floor area (excluding the areas occupied by elevators, toilet rooms, stairways, other shaft enclosures, and by permanent fixtures such as bowling alleys, bars, cigar counters, exit facilities, entrance vestibules, lunch counters and serving spaces for same; etc.) by the floor area per person established in the following table:

OCCUPANCY	Floor Area Per Person (Sq. Ft.)
School classrooms (other than open-plan schools and recreation rooms)	20
Open-plan schools, school laboratories and shops	30
Museums, libraries and similar uses	20
Restaurants	15
Other assembly uses	6
Exhibition Area	20
Day Care Center	35

B) Other Occupancies

In occupancies, other than Assembly Units, the occupancy contents shall be determined by dividing the net floor area within the perimeter of the space or building not including elevators, stairways, or other shaft enclosures by the floor area per person established in the following table:

OCCUPANCY	Floor Area Per Person (Sq. Ft.)
Residential Units	125
Institutional Units	150
Business Units	100
Mercantile Units	
First Floor	30
Basement Sales Floor	30
Other Floors	60
Industrial Units	
Power Plants	400
Other Industrial Units	100
Storage Units	300

c) Convenience-Accessibility-and Maintained in Sanitary Condition. Plumbing fixtures installed for the use of the public shall be installed so that such fixture is convenient, accessible and maintained in a sanitary condition.

d) Plumbing and Handicapped. Minimum plumbing facilities for the handicapped are contained in the publication "Illinois Accessibility Code". These standards are administered by the State of Illinois Capital Development Board. A copy of the "Illinois Accessibility Code" may be obtained by contacting the State of Illinois Capital Development Board. Where plumbing fixtures are installed for the handicapped such plumbing and plumbing fixtures shall comply with these "Illinois Accessibility Code".

SUBPART H: HANGERS AND SUPPORTS

Section 890.1310 Hangers and Supports

General. Hangers, anchors and supports shall be of material of sufficient strength to support the piping and its contents. Hangers, anchors and supports shall be securely attached to the building construction at sufficiently close intervals to support the piping and its contents. Provisions shall be made to allow for expansion, contraction, structural settlement and vibrations.

Section 890.1320 Vertical Piping

a) Attachment. Vertical piping shall be secured at sufficiently close intervals to keep the pipe in alignment and carry the weight of the pipe at its maximum capacity. Stacks shall be supported at their base and, if over two stories in height, the stack shall be supported at each floor by floor clamps. See Exhibit D: Illustration G and H.

b) Cast Iron Soil Pipe. Cast iron soil pipe shall be supported at not less than every story height and at its base. Hubless or compression gasket joint-supported at not less than every story height, at its base and at sufficiently close intervals to keep the pipe in alignment and to adequately support the weight of the pipe at its maximum capacity. See Exhibit D: Illustration G and H.

c) Threaded Pipe. Threaded pipe shall be supported at every other story height. Supports shall be of ferrous material.

d) Copper Tubing. Copper tubing shall be supported at each story for piping one and one-half (1-1/2) inches and larger in diameter. For piping one and one-quarter (1-1/4) inches and smaller in diameter, it shall be supported at each story and not more than six (6) foot intervals. On long lines where there are the usual provisions for expansion and contraction, anchors may be a maximum of four (4) stories apart for cold water risers and Drain Waste Vent (DWV) stacks, and two (2) stories apart for hot water risers, provided there are sleeves or similar devices at intermediate floors to restrain lateral movement. Vertical lines of annealed temper tube should be supported at least every story of ten (10) foot intervals. Supports shall be of copper material or other suitable material of sufficient strength which will not adversely react with the piping material.

e) Lead Pipe. Lead pipe shall be supported at intervals not exceeding four (4) feet. Supports shall be of lead material.

f) Plastic. Hangers and straps shall not compress, distort, cut or abrade the piping and shall allow free movement of the pipe. Wire pipe hooks shall not be used to support any plastic piping. Restraining joints and expansion joints shall be installed as required. Support all pipe at intervals of not more than four (4) feet at end branches and at change of direction or elevation. Supports shall allow free movement. Maintain vertical piping in straight alignment. Support trap arms in excess of three (3) feet as close as possible to the trap. Installation shall be as per appropriate standards and manufacturers' instructions.

Section 890.1330 Horizontal Piping

a) Support. Horizontal piping shall be supported at sufficiently close intervals to keep the piping in alignment and prevent sagging. See Exhibit D: Illustration I.

b) Cast Iron Soil Pipe. Where joints occur, suspended cast iron soil pipe shall be supported at not more than five (5) foot intervals; except that pipe exceeding five (5) feet in length may be supported at not more than ten (10) foot intervals. Supports shall be adequate to maintain alignment and prevent sagging and shall be placed within 18 inches of the hub or joint. Hubless or compression gasket joints must be supported at least at every other joint except that when the developed length between supports exceeds four (4) feet, they shall be provided at each joint. Supports shall also be provided at each horizontal branch connection. Supports shall be placed on or immediately adjacent to the coupling. Suspended lines shall be suitably braced to prevent horizontal movement.

c) Threaded Pipe. Threaded pipe one and one-half (1-1/2) inches and over shall be supported at each twelve (12) foot interval; one and one-quarter (1-1/4) inch and smaller shall be supported at each eight (8) foot interval. Support shall be of ferrous material.

d) Copper. Copper tubing shall be supported at approximately eight (8) foot intervals for piping one (1) inch and smaller and at ten (10) foot intervals for larger sizes. Supports shall be of copper material or other suitable material of sufficient strength which will not adversely react with the copper piping material.

e) Lead Pipe. Lead pipe shall be supported by strips or otherwise for its entire length. Metallic supports in contact with the pipe shall be of lead material.

f) Plastic Pipe. Hangers and straps shall not compress, distort, cut, or abrade the piping and shall allow free movement of the piping. Wire pipe hooks shall not be used to support any plastic piping. The restraining joints and expansion joints shall be installed as required. Support all pipe at intervals of not more than four (4) feet, at end of branches and at change of direction or elevation. Supports shall allow free movement. Support trap arms in excess of three (e) feet as close as possible to the trap. Installation shall be as per appropriate standards and manufacturers' instructions.

g) Buried Piping. Piping in the ground shall be laid on a firm bed for its entire length, except where support is otherwise provided which is adequate in the judgment of the Department.

Section 890.1340 Hanger and Anchors

a) Material. Hangers, anchors, and supports shall be of metal or other material of sufficient strength to support the piping at its maximum capacity. Piers may be of concrete, brick, or other approved materials. Hangers, anchors, and supports shall be of metal of sufficient strength to maintain their proportional share of the pipe alignment and prevent rattling. The material of the hanger or anchor or support shall be of proper material for the pipe being supported.

b) Attachment. Hangers and anchors shall be securely attached to the building's construction.

Section 890.1350 Strains and Stresses

a) Installation of Pipe. Piping in a plumbing system shall be so installed as to prevent undue strains and stresses on the piping.

b) Expansion and Contraction. Provision shall be made for expansion and contraction of piping and for structural settlement that may adversely affect the piping.

Section 890.1360 Base of Stacks

a) Supports. Bases of cast iron soil stacks shall be supported on concrete or brick laid in cement mortar. Alternate methods shall be approved by the Department. See Exhibit D: Illustration J.

b) Piping Material. Other piping material shall be so anchored as to take the load off of the stack at the base.

SUBPART I: INDIRECT WASTE PIPING, SPECIAL WASTE

Section 890.1410 Indirect Waste Piping

a) Food and Beverage Handling. Commercial dishwashing machines, dishwashing sinks, pot washing sinks, pre-rinse sinks, silverware sinks, bar sinks, soda fountain sinks, vegetable sinks, potato peelers, ice machines, steam table, steam cookers, and other similar fixtures shall be indirectly connected. *The only exception shall be when such fixtures are located adjacent to a floor drain, the waste may be directly connected on the sewer side of the floor drain trap provided the fixture waste is trapped and vented as required by this Code (See Exhibit D, Illustration K and N) and the floor drain is located within four feet horizontally of the fixtures and in the same room. In the case of direct connection no other fixture waste shall be connected between the floor drain trap and the fixture protected.

*AGENCY NOTE: The indirect piping from the fixture to the air gap shall not exceed five (5) feet developed length. All indirectly connected fixtures shall discharge to a vented trap located as close as possible to the fixture and in the same room (See Exhibit D, Illustrations L and M).

b) Connection. Indirect waste connections shall be provided for drains, overflows, or relief vents from the water supply system. See Exhibit D, Illustration O and Section 890.1440(a), 890.1460(a), (b), and (c) and 890.1660(d). The discharge from relief valves shall drain through an indirect waste connection into a floor drain or a receptor.

c) Sterile Materials. Appliances, fixtures, devices, or other apparatus such as stills, sterilizers, and other similar equipment requiring water and waste connections and used for preparation of sterile material shall be indirectly connected to the drainage system.

d) Swimming Pools.

1) Piping carrying backwash or other washwater from the swimming pool filter shall be installed as an indirect waste to the building drain or building sanitary waste system. Piping utilized to drain water from the pool proper such as the main drain waste and gutter waste shall be installed as an indirect waste to a storm sewer. Piping utilized for carrying wastewater from deck drains around a pool shall be installed as an indirect waste when the deck drains toward the pool.

2) Refer to the Minimum Sanitary Requirements for the Design and Operation of Swimming Pools and Bathing Beaches, Circular No. 4.102, Illinois Department of Public Health.

e) Condensers and Sumps.

No steam pipe shall connect to any part of a drainage or plumbing system, nor shall any water above 180 degrees Fahrenheit be discharged into any part of the drainage system. The drains from pressure tanks, boilers, relief valves, and other similar equipment shall be connected to the drainage system through an indirect waste. Boilers exceeding 15 psi shall discharge through a cooling chamber.

f) Clear Water Wastes.

Water lifts, expansion tanks, cooling jackets, sprinkler systems, drip or overflow pans, or similar devices which waste clear water only shall discharge onto a roof or into the building drainage system through an indirect waste.

Section 890.1420 Cleaning

Indirect waste piping shall be so installed as to permit access for flushing and cleaning.

Section 890.1430 Material and Size

Pipe sizes must conform to the pipe sizes in relation to fixture outlets, but not less than three-quarters (3/4) an inch for sanitary waste.

Section 890.1440 Length and Slope

a) Maximum Length. The maximum developed length of the indirect water of any sanitary waste line shall not exceed five (5) feet. The maximum developed length of all indirect clear-water waste shall not exceed fifteen (15) feet.

b) Maximum Slope. Indirect waste pipes shall be installed at a uniform slope, but at slopes not less than that permitted in Section 890.1720(g), (h) and (i).

Section 890.1450 Air Gaps

The air gap between the indirect waste and the building drainage system subject to negative pressure shall be at least twice the effective diameter of the drain served, but not less than one (1) inch. All other air gaps shall not be less than one (1) inch. See Exhibit D: Illustration P.

Section 890.1460 Receptors

a) Installation. Receptors serving indirect waste pipes shall not be installed in any inaccessible or unventilated space, or otherwise concealed or hidden and shall be sized to prevent overflow. See Section 890.670(b).

b) Strainers and Baskets. A receptor shall be equipped with either a readily removable basket over which the indirect waste pipe shall discharge, or the indirect waste receptor outlet shall be equipped with a strainer.

c) Splashing. All plumbing receptors receiving the discharge of indirect waste pipes shall be of such design and capacity as to prevent splashing or flooding under normal conditions. No plumbing fixture with potable water connected to it, except service sinks, shall be used to receive the discharge of an indirect clear water waste pipe.

Section 890.1470 Special Wastes

a) Acid Wastes. Acid and chemical waste piping and fittings including traps shall be of material unaffected by the waste being discharged.

b) Neutralizing Device. In no case shall corrosive liquids, spent acids, or other harmful chemicals be discharged into the building sewer without first being thoroughly diluted or neutralized.

SUBPART J: WATER SUPPLY AND DISTRIBUTION

Section 890.1510 Quality of Water Supply

All Premises. All premises intended for human habitation or occupancy shall be provided with a potable water supply. The potable water supply shall not be connected to non-potable water and shall be protected from backflow and back-siphonage.

Section 890.1520 Color Code

Identification of Piping. All piping conveying non-potable water shall be adequately and durably identified by a distinctive yellow-colored paint so that such piping is readily distinguishable from piping carrying potable water. (See USA Z253.1-1953 Safety Color Code for Marking Physical Hazards and USA A13.1-1956 Scheme for the Identification of Piping Systems.)

Section 890.1530 Water Supply Mandatory

Every Building. Every building in which plumbing fixtures are installed shall be provided with a service connection to a potable water supply. See Section 890.410.

Section 890.1540 Protection of Potable Water

a) Cross Connection (Submergence). Potable water supply piping, water discharge outlets, backflow prevention devices or similar equipment shall not be located as to make possible their submergence in any contamination or polluted liquid or substances. See Exhibit E: Illustration A, B, and C.

b) Approval of Devices and Maintenance. Before any device for the prevention of backflow or back-siphonage is installed, it shall have first been certified that it meets the requirements of a recognized testing laboratory acceptable to the Department. Devices such as the reduced pressure (RP) principal backflow preventers, when installed in a potable water supply system for protection against backflow or back-siphonage, shall be maintained on a regular basis and

appropriate records to verify maintenance shall be available at the site of the installation of the device or other approved location.

c) Backflow. The water-distribution system shall be protected against back-siphonage and backflow. Each water outlet shall be protected from backflow and/or back-siphonage, preferably by having the outlet end from which the water flows spaced a distance above the flood-level rim of the receptacle into which the water flows sufficient to provide a "minimum fixed air gap". Where it is not possible to provide a minimum fixed air gap, the water outlet shall be equipped with an accessibly located backflow/back-siphonage preventer complying with applicable standards.

BACKFLOW PREVENTERS	ANSI	OTHER
Vacuum Breakers, Anti-Siphon	A112.1 (1980)	ASSE 1001 (1982)
Vacuum Breakers, Hose Connection		ASSE 1011 (1982)
Double Check With Atmospheric Vent		ASSE 1012 (1978)
Reduced Pressure Principle Backflow Preventer	ASSE 1013 (1980)	AWWA C506 (1983)
Double Check Valve Assembly		ASSE 1015 (1980) AWWA C506 (1983)
Dual Check Valve		ASSE 1024 (1984)
Anti-Siphon Self-Draining Frost Proof Sillcocks		ASSE 1019 (1978)
Vacuum Breakers, Pressure Type		ASSE 1020 (1974)
Dual check valve (carbonated beverage) Relief port required		ASSE 1032 (1980)
Pressurized Flushing Devices		ASSE 1037 (1986)

Agency Note: Vacuum relief valves shall not be used for backflow prevention.

d) Fire safety systems shall be equipped with a double detector check valve assembly located at the point of connection between the fire safety system and the water supply line to protect the water supply against backflow and backsiphonage except under the conditions described in subsection (A) (2).

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1) A fixed proper air gap with a break tank or other storage vessel or a reduced pressure principle backflow preventer shall be installed at the point of connection between the fire safety system and the water supply service line to protect the water supply against backflow and backsiphonage when:

A) The fire safety system contains additives such as antifreeze, fire retardant or other chemicals. The RPZ assembly may be located at the point of connection to the section of the system containing such additives when the connection to the water supply is protected by a double detector check valve assembly; or

B) Water is pumped into the fire safety system from a non-potable source capable of serving the fire safety system. A non-potable source of water shall be considered capable of serving the fire safety system under the following conditions: It must be capable of year-round use, maintained with not less than 50,000 gallons of usable water not subject to freezing, accessible to fire fighting pumper equipment, located within 1700 feet of the facility; or

C) Water flows into the fire safety system by gravity from a non-potable source; or

D) There is a permanent or emergency connection whereby water can be pumped into the fire safety system from any other non-potable source.

2) Fire department connections served solely by a water system without any non-potable connections or chemical additives shall require installation of a double detector check valve assembly.

e) Prohibited Connections.

1) Sewage Lines. There shall be no direct connection between potable water lines and lines, equipment and vessels containing sewage. Such connections shall be made only through a minimum fixed air gap as outlined in Section 890.1550(a).

2) Chemical or Petroleum Pressure Vessels. No person shall connect any pressure vessel, i.e., storage tank, tank car, tank truck or trailer or other miscellaneous pressurized tank or cylinder containing or having contained liquified gaseous petroleum products or other liquified gaseous chemicals to any potable water supply. Water for flushing or cooling, or otherwise to be

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installed into such a vessel shall be obtained by gravity through a minimum fixed air gap as outlined in Section 890.1550(a)(1-3).

AGENCY NOTE: If water under pressure is required, it may be supplied only by means of an auxiliary pump taking suction from a suction tank provided for this purpose only with an over-rim supply having the required minimum fixed air gap as outlined in Section 890.1550(a).

3) Refrigerant Condensers. No refrigerant condenser of the water jacket type with a common wall between the refrigerant gas the cooling water shall be directly connected to a potable water supply. Cooling water, if from potable water supply; shall comply with *ASSE 1012 and 1013. See AGENCY NOTE - subsection (d)(2) above.

4) Chemical Pressure Vessels. Chemical pressure vessels containing chemicals used in the water treatment process, by the authority charged with the operation of the water supply, are hereby specifically exempted from the provisions of Subsection (d)(2) above.

f) Devices for the Protection of the Potable Water Supply. Approved backflow preventers or vacuum breakers shall be installed with all plumbing fixtures and equipment, the potable water supply outlet of which may be submerged and which is not protected by a minimum fixed air gap. Connection to the potable water supply system, for the following fixtures or equipment, shall be protected against backflow with any one or more of the devices as indicated below:

1) Low inlet to receptacles containing toxic substances (vats, storage containers, plumbing fixtures):

A) an approved fixed air gap fitting
B) reduced pressure principle backflow preventer
C) pressure vacuum breaker unit
D) atmospheric vacuum breaker unit

2) Low inlet to receptacles containing non-toxic substances (steam, air, food, beverages, etc.):

A) an approved fixed air gap fitting
B) reduced pressure principle backflow preventer
C) pressure vacuum breaker unit
D) atmospheric vacuum breaker unit
E) approved double-check valve assembly

F) double-check with atmospheric vent

3) Outlets with hose attachments which may constitute a cross connection:

A) an approved fixed air gap fitting
B) reduced pressure principle backflow preventer
C) pressure vacuum breaker unit
D) atmospheric vacuum breaker unit

4) Coils or jackets used as heat exchangers in compressors, degreasers, and other such equipment involving toxic substances:

A) an approved fixed air gap fitting
B) reduced pressure principle backflow preventer
C) pressure vacuum breaker unit

5) Direct connections - subject to back-pressure:

A) non-toxic substances

i) an approved fixed air gap fitting
ii) reduced pressure principle backflow preventer
iii) approved double-check valve assembly
iv) double-check with atmospheric vent

B) toxic substances

i) an approved air gap fitting
ii) reduced pressure unit

C) sewage and lethal substances

i) an approved fixed air gap fitting

g) Installation of Devices.

1) Atmospheric Vacuum Breakers. Vacuum breakers shall be installed with the critical level above the flood level rim of the fixture they serve, and on the discharge side of the last control value of the fixture. No shutoff valve or faucet shall be installed beyond the vacuum breaker. See Section 890.1550(c).

2) Pressure Type Vacuum Breaker. Pressure type vacuum breaker unit shall not be installed except where permitted in subsection (e) of this Section.

3) Reduced Pressure Principle Backflow Preventer. A reduced pressure principle backflow preventer may be installed where permitted in subsection (e) of this Section.

4) Devices of All Types. Backflow and back-siphonage preventing devices shall be installed so as to provide accessibility, located for observation, maintenance and replacement services. No in-line double check or reduced pressure principle backflow preventer shall be located more than five (5) feet above a floor or walk area. Backflow/back siphonage devices shall not be installed where they are subject to freezing or flooding conditions.

5) All in-line backflow/back siphonage preventers shall have a full opening type valve with an outside-stem-yoke (OS and Y) on each side of the preventer and located within five (5) feet of the preventer. The valve shall be of bronze or stainless steel seat design.

6) All types of backflow/back siphonage devices shall be field tested in accordance with the manufacturer's instructions by a certified tester before initial operation. "(See 35 Ill. Adm. Code 608)".

7) A protective strainer shall be located upstream of the first check valve on all in-line back flow/back siphonage preventers unless the device contains a built-in strainer. Fire safety systems are exempt from installing a strainer.

8) Properly installed cross-connection control devices create a closed water system. Such systems shall have a properly sized thermal expansion tank, relief valve, or air chambers located in the cold water supply as near to the water heater as possible.

Section 890.1550 Vacuum Breakers and Air Gaps

a) Air Gaps. Air gaps shall be used whenever possible, in preference to vacuum breakers and should be used on such installations as cooling towers, air conditioning plenum chambers, open tanks, i.e.

1) The air gap in a water supply system is the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank or plumbing fixture and the flood level rim of the receptacle. See Exhibit G, Table G.

2) The minimum required air gap shall be measured vertically from

the end of the faucet spout or supply pipe to the floor level rim of the fixture or vessel. See Exhibit G, Table G.

3) The minimum required air gap shall be twice the diameter of the effective opening, but in no case less than given in Exhibit G: Table G.

4) Where it is not practical to provide a minimum required air gap above the flood level rim of the tank, or vat, a backflow preventer shall be installed in accordance with subsection (b) below.

b) Vacuum Breakers.

1) Required. Atmospheric vacuum breakers shall be installed within the fixture supply when the outlet end may be submerged, such as hose and spray, direct flushing rim valves, aspirators and under rim water supply connections to a plumbing fixture or receptacle in which the surface of the water in the fixture or receptacle is exposed at all times to atmospheric pressure. The type of preventer referred to will not protect against backflow when water is discharged through it into a space which contains pressure higher than atmospheric.

2) Where. An atmospheric vacuum breaker shall be installed between the control valve and the fixture and in such a manner that it will not be subject to water pressure, except the back pressure incidental to water flowing to the fixture.

3) Atmospheric Vacuum Breaker. An atmospheric vacuum breaker shall be installed on the outlet side of the control valve.

4) Backflow Preventers - Design. All devices used for backflow prevention shall be made of corrosion resistant material and shall be so designed and proportioned as to prevent deterioration or deformation.

5) Approved Backflow Devices. All devices used for backflow prevention shall have been tested and approved to meet tests and performance as required by a recognized national standard for such devices. See Exhibit G, Table D and Section 890.1540(c)(1).

c) Flushometer Valve. Flush valves shall be equipped with approved vacuum breakers. The vacuum breaker shall be installed on the discharge side of the flushing valve with the critical level at least four (4) inches above the overflow rim of the bowl. See Exhibit E, Illustration D.

d) Flushing Tanks. Flushing tanks shall be equipped with approved anti-siphon ballcocks. The ballcock shall be installed with the critical level of the vacuum breaker at least one (1) inch above the full opening of the overflow pipe. In cases where the ballcock has no hush tube, the bottom of the water supply inlet shall be installed one (1) inch above the full opening of the overflow pipe. See Section 890.1070(d).

e) Lawn Sprinklers. Lawn sprinkler systems shall be equipped with approved vacuum breakers on the discharge side of each of the last valves. The vacuum breaker shall be at least six (6) inches above the highest head, and in no case less than six (6) inches above the surrounding ground. Where combination control valves and vacuum breakers are installed, the bottom of the valve shall constitute the bottom of the vacuum breaker. See Section 890.1540(c) and (e).

f) Valve Outlets for Hose Attachments.

1) Valve outlets with hose attachments shall have an approved backflow protection. The backflow protection may be permanently attached to the hose threads of the valve outlet, or may be an integral part of the valve.

2) Frost proof hydrants connected to potable water lines shall have backflow protection attached to the hydrant spigot (if threaded) and the (weep) drain down hole shall be protected from any ground water back up. (A backflow protector or open sight drainage is accepted for the drain back).

3) Backflow protection is not required when the hose (water supply line) is directly connected to a mobile unit used as a temporary or permanent dwelling place and the water line (hose) is under constant pressure.

g) Laundry Machines. The potable water supply to laundry machine(s) shall be protected against back-siphonage by:

1) air gap

2) approved vacuum breaker installed a minimum of twenty-six (26) inches above the top of the machine (commercial only)

h) Commercial Dishwashers. Commercial dishwashers shall be equipped with an approved vacuum breaker located in the rinse water supply line on the discharge side of the final control valve, a minimum distance of six (6) inches above the uppermost spray outlets. The cold water or make-up water supply line shall be provided with an air

gap as outlined in Subsection (a) above or an approved vacuum breaker located on the discharge side of the final control valve, a minimum distance of six (6) inches above the absolute overflow or flood rim.

i) Aspirators. Water operated aspirators shall meet the following specifications:

1) The water supply line shall be equipped with a shut-off valve.

A) In operating rooms, emergency rooms, recovery rooms, delivery rooms, autopsy rooms and laboratories where aspirators are installed for removing blood, puss and/or other fluids, an approved vacuum breaker shall be installed on the discharge side of the control valve, and shall be located at ceiling heights or seven (7) feet six (6) inches, whichever is less.

B) Water operated aspirators used for dispensing detergent shall be protected against backflow and back-siphonage.

2) The aspirator water discharge shall be provided with a two (2) inch air gap to the receiving fixture.

j) Pressure Type Water Treatment Units. Wash water and rinse water drain lines from water softeners and other types of water treatment filters shall discharge to the sanitary drainage system through a trap, floor drain or sump. The waste from water conditioning equipment shall discharge to the sanitary sewer or if sanitary sewer is not available it shall be discharged in accordance with the Private Sewage Disposal Licensing and Act Code. (Ill. Rev. Stat. 1987, ch. 111 1/2, par. 116.301 et seq.). An air gap equal to at least two (2) times the nominal diameter of the discharge pipe from the equipment shall be provided. Any water softening unit which depends on a venturi created by the flow of water from the water supply line to the softener to siphon brine solution for regeneration, shall not be required to have a backflow protection device on the water supply line. All other types (those that depend on internal check valves to prevent backflow and/or have the inlet supply of water stopped during regeneration) shall have a double check valve installed on the inlet water supply line.

k) Bidet. A bidet shall be equipped with hot and cold water. An approved atmospheric vacuum breaker shall be installed on the discharge side of the control valve. The bottom of a vacuum breaker, or the critical level line shown on the vacuum breaker, shall not be less than four (4) inches above the flood level rim of the bidet.

l) Kidney Dialysis Machines - All kidney dialysis units shall have, as a minimum, a reduced pressure principle backflow preventer conforming with ASSE Standard 1013 or an approved air gap installed on the water supply inlet. The discharge for all dialysis machines shall be indirectly connected.

m) Whirlpool Bathtubs - Whirlpool bathtubs shall be installed in such a manner that the tub, pump, jets and pump tubing drain completely after each use. The pump shall be located above the weir of the whirlpool tub trap.

Section 890.1560 Water Service Pipe

a) Underground Water Service.

The water service pipe may be installed in accordance with one of the following methods:

1) Water service piping and building sewer piping may be installed in separate trenches with a minimum of ten (10) feet horizontal separation. Such installation shall use material listed in Exhibit G: Table D provided that such material is specific for this type of installation. This is the preferred method of installation. (See Exhibit E, Illustration E)

2) The water service piping and the building sewer piping may be installed in a common trench provided that the water service pipe is placed on a shelf a minimum of eighteen (18) inches above the building sewer piping. Such installation shall use, for a building sewer, material listed in Exhibit G: Table D for a building drain. (See Exhibit E, Illustration F)

b) Potable Water Piping Sewer Crossings.

1) Where crossings are necessary the potable water piping shall be installed above the sewer with a minimum vertical separation of 18 inches.

2) Where is it necessary for the potable water piping to pass beneath a sewer, the sewer shall be of materials as specified in Exhibit G: Table D for building drains and shall extend on each side of the crossing to a distance of not less than ten (10) feet as measured at right angles to the water line. The potable water piping shall comply with Exhibit G: Table D as specified for a water service pipe.

c) Stop-And-Waste Valve. Combination stop-and-waste valves and cocks

shall not be installed in an underground potable water pipe. Exception - Frost free hydrants and fire hydrants shall not be considered as stop-and-waste valves. See Section 890.1550(g).

d) Private Water Supply Interconnection. A private water supply shall not be interconnected with a public water supply unless it is located and constructed in accordance with the Water Well Construction Code and Water Well Pump Installation Code and the connection is protected against backflow and back-siphonage as specified in Section 890.1540(e) and (c)(1).

Section 890.1570 Water Pumping and Storage Equipment

a) Pumps and Other Appliances. Water pumps, tanks, filters, and all other appliances and devices shall be protected against contamination.

b) Water-Supply Tanks. Potable water supply tanks shall be properly covered to prevent contamination of the water supply. Soil or waste lines shall not pass directly over such tanks.

c) Cleaning, Painting, Repairing Water Tanks. A potable water supply tank used for domestic purposes shall not be lined, painted or repaired with any material which affects either the taste or the potability of the water supply when the tank is returned to service. Tanks shall be disconnected from the system during such operations, to prevent any foreign fluid or substance from entering the system.

d) Approved Products, Coagulant aids, corrosion control chemicals, treatment chemicals, liners, grouts, hoses, tubings, concrete coatings/admixtures, sealants, paints, and other sundry products for use in water treatment practice that have found to be acceptable by the United States Environmental Protection Agency (U.S.E.P.A.). The listing is contained as Appendix E to this code.

Section 890.1580 Water Supply Tanks and Auxiliary Pressure Tanks

a) When Required. When the water pressure from the public water supply main is insufficient during periods of peak flow or due to the building height to supply all fixtures adequately and continuously, the rate of supply shall be supplemented by the gravity tank or auxiliary pressure (booster) system. See Section 890.1540(e) and (f) for pump control requirements. Auxiliary pressure systems shall not be utilized as an alternate for adequate sizing of water distribution piping within the building.

b) Support. All water supply tanks shall be supported in accordance with the building code or other regulations which apply.

c) Tank Supply Inlet. The water supply inlet within the tank shall be at an elevation not less than is required for an air gap in an open tank with overflow., but in no case shall the elevation be less than twice the diameter of the overflow pipe nor less than six (6) inches above the overflow.

d) Overflow for Water Supply Tanks. Overflow pipes for gravity tanks shall be indirectly connected to the drainage system with an air gap of not less than six (6) inches. Overflow pipes shall be full sized and not restricted and shall be screened with 24-mesh per inch stainless steel or bronze screen. The area of the screen shall be at least 50% greater than the diameter of the overflow pipe.

e) Size of Overflow. Overflow drains for water supply tanks shall have an area of not less than twice the size of the supply pipe.

f) Drains. Water supply tanks shall be provided with valved drain lines located at their lowest point and discharged as an indirect waste or as required for overflow pipes in Section 890.1580(d). Such valve shall have a clear water-way, but need not exceed two (2) inches in diameter.

g) Gravity and Suction Tanks. Tanks used for potable water supply or to supply fire-fighting equipment only shall be equipped with tight, overlapping covers which are vermin and rodent proof. Such tanks shall be vented with a return bend vent pipe having an area not less than one-half (1/2) the area of the down feed riser and the vent opening shall be covered with a stainless steel or bronze screen of not less than 24-mesh per inch.

h) Pressure Tanks. Pressure tanks used for supplying water to the water distribution system, or to supply standpipes for fire equipment only, shall be equipped with an acceptable vacuum breaking device located on top of the tank. An air inlet of this device shall be covered with a stainless steel or bronze screen of not less than 24-mesh per inch.

Section 890.1590 Disinfection of Potable Water System

a) Potable Water Piping. A potable water piping system or any part thereof installed or repaired shall be disinfected in accordance with one of the following methods before such system is placed into use.

1) Potable Water - Chlorine. The potable water piping system, or any part thereof, shall be filled with a water-chlorine solution and allowed to stand six (6) hours before flushing and returning such system to use.

2) Potable Water - Available Chlorine. The water piping system, or any part thereof, shall be filled with a water-chlorine solution containing at least 100 parts per million of available chlorine and allowed to stand two (2) hours before flushing and returning the water service to use.

b) Potable Water - Storage Tank - Disinfect. In the case of a potable water storage tank where it is not possible to disinfect as provided in Subsection (a)(1) and (2) above, the interior of the tank shall be subjected to a water-chlorine solution containing 200 parts per million of available chlorine and the solution allowed to stand two (2) hours before flushing and returning such tank to use.

Section 890.1600 Water Supply System Materials

Water Service Pipe. See Exhibit G: Table D.

Section 890.1610 Allowance for Character of Soil and Water

See Exhibit G: Table D.

Section 890.1620 Water Supply Control Valves

a) Water Supply Control. A main shut-off valve on the water service pipe shall be provided near the curb or property line. In addition thereto, an accessible, gate-type shut-off valve with a drip valve shall be provided inside near the entrance of the water service pipe into the building. See Exhibit E, Illustration H. Refer to Section 890.1560(c).

b) Shut-Off Valve at Meter. The shut-off valve at the discharge side of the water meter shall not be less in size than the size of the building water service, and shall be of the full-opening type with suitable drainage provisions. See Exhibit E, Illustration I.

c) Tank Controls. Supply lines taken from pressure or gravity tanks shall be valves at or near their source.

d) Separate Controls for Each Family Unit. In two-family or multiple dwellings, each family unit shall be controlled by an arrangement of shut-off valves which permit each group of fixtures or the individual fixture to be shut off without interference with the water supply to any other family unit or portion of the building. See Exhibit E, Illustration J.

e) Groups of Fixtures. A group of fixtures means two or more fixtures adjacent or near each other. In a one-family house, one or two

bathrooms adjacent or one over the other may be considered a group.

f) Buildings Other Than Dwellings. In all buildings other than dwellings shut-off valves shall be installed which permit the water supply to all equipment and/or fixture in each separate room to be shut off without interference with the water supply to any other room or portion of the building. See Exhibit E, Illustration K.

g) Water Heating Equipment. A shut-off valve shall be provided in the cold water branch line to each water storage tank or each water heater, installed as close as possible to water storage tank or water heater.

Section 890.1630 Water Supply Distribution

a) Water Service Pipe Sizing. The water service pipe from the street main to the water distribution system for the building shall be of sufficient size to provide an adequate flow of water to meet the requirements of the entire building at peak demand. In no case shall the water service pipe be less than three quarter (3/4) inch nominal diameter. If flushometers or other devices requiring a high rate of water flow are used, the water service pipe shall be designed and installed to provide this additional need for water service. All piping used outside the building for potable water piping shall be installed underground below the maximum frost penetration in the local area.

b) Demand Load. The demand load in the building water supply system shall be based on the number and types of fixtures installed and the probable simultaneous use of such fixtures.

c) Unused Sections of Service or distribution lines of water piping, or so called dead-ends where the water will become stagnant are prohibited. A developed length of more than two (2) feet shall be considered a dead-end, except for a combination building water supply and fire safety system.

Section 890.1640 Procedure in Sizing the Water Distribution System of a Building

a) Design and Installation. The design and installation of the hot and cold water building distribution system shall conform to good plumbing engineering practice, as required in subsection (b) below and within the Exhibit G., Table Q.

b) Size of Fixture-Supply. The minimum size of a fixture-supply pipe shall be illustrated in Exhibit G: Table H.

c) Minimum Flow Pressure. Minimum fairly constant, service pressure, at the point at outlet discharge shall be not less than eight (8) psi for all fixtures except for the direct flush-valves, for which it shall not be less than fifteen (15) psi, and except where special equipment is used requiring higher pressure.

d) Auxiliary Pressure. Supplementary Tank. If the residual pressure in the system is below the minimum allowable at the highest water outlet when the flow in the system is at peak demand, an automatically controlled pressure tank or gravity tank shall be installed, of sufficient capacity to supply sections of the building installation which are too high to be supplied directly from the public water main.

e) Low Pressure Cut-Off. When a booster pump except those used for fire protection is used on an auxiliary pressure system, there shall be installed a low-pressure cut-off switch on the booster pump to prevent the creation of pressures less than five (5) psi on the suction side of the pump. A shut-off valve shall be installed on the suction side of the water system and within five (5) feet from the pump suction inlet, and a pressure gauge shall be installed between the shut-off valve and pump.

f) Approval of Auxiliary Pressure Systems. Whenever in any building, structure, or premises receiving its potable water supply from the public water system, a pump or any other device for increasing the water pressure is to be installed, plans of such installation shall be approved by the Department prior to installation.

g) Variable Street Pressures. When the street main has a wide fluctuation in water pressure, the water distribution system shall be designed for minimum pressure available in the main unless alternate provisions are made.

h) Hazard and Noise. All building water supply systems in which quick acting valves are installed shall be provided with devices to absorb high pressures resulting from the quick closing of these valves. These pressure absorbing devices shall be either air chambers or approved (ASTM A.112.26.(1984)) mechanical devices. Water pressure absorbers shall be placed as close as possible to the quick acting valves or installed at the ends of long pipe runs or near batteries of fixtures.

1) Air Chambers - Where air chambers are installed, they shall be in an accessible place and each air chamber shall be provided with means for restoring the air in the event the chamber becomes waterlogged.

2) Mechanical Devices - Where mechanical devices are used the manufacturer's specifications for location and installation shall be followed.

i) Excessive Static Water Pressure.

1) When street water main pressure exceeds eighty (80) psi, an approved pressure reducing valve and strainer with by-pass relief valve shall be installed in the water service pipe near the entrance to the building in order to reduce the water pressure to eighty (80) pounds per square inch or lower. Sill cocks and outside hydrants may be left on full water main pressure at the option of the property owner.

2) Pressure reducing valves shall comply with applicable requirements of ASSE Standard Number 1003, "Water Pressure Reducing Valves for Domestic Water Supply Systems".

Section 890.1650 Hot-Water Supply and Distribution

a) Water Heaters. Water heater, gas ANSI Z 21.10.1-74, Water Heater, Electric UL 174 shall be so stamped or marked to indicate compliance with American Society of Heating, Refrigeration and Engineers, Inc. Standard 90 (1980).

1) All equipment used for heating and storage of hot water shall conform to approved, recognized, applicable construction and installation standards. All such water heating equipment shall bear the marking of an approved testing agency certifying that such equipment has been tested and approved and listed to meet the requirements of the applicable standard. Listing by Underwriters Laboratories, American Gas Association or National Board of Boiler and Pressure Vessel Inspectors and ASME Standard shall constitute evidence of conformance with these standards. See Exhibit E, Illustration L and M.

2) Solar heated system used to temper or heat the hot water system shall be by the use of a double walled heat exchanger which is exposed to the atmosphere between the walls.

3) Heat exchanges using a nontoxic transfer fluid with no conditioning chemicals in the system may be of single wall construction.

4) Heat exchangers using a toxic transfer fluid and/or having conditioning chemicals in the system shall be separated from the potable water by a double wall construction. There shall be an open air gap to the atmosphere between the two walls. The

boiler (heating chamber) must be of low pressure (below 15 psi).

5) No heat exchanger will be permitted on any high pressure boiler operating in excess of 15 psi or high temperature hot water system operating in excess of 250°F unless:

A) the heat exchanger is double walled; and

B) the heat exchanger has an air gap open to the atmosphere between the two walls; and

C) a pressure reducing valve is installed between the boiler and heat exchanger with the setting 30 psi lower than the water service pressure.

D) A pressure relief valve shall be installed downstream of the pressure reducing valve at a setting of five (5) pounds above the pressure reducing valve.

6) Any boiler using toxic chemicals or conditioning chemicals shall have a label (with a minimum size of 5"x5") attached to the boiler in a conspicuous place. The label shall read as follows:

WARNING
Chemicals and additives used to treat the boiler feed water in this boiler are not approved for potable water. The steam produced by this boiler is not potable. If the steam produced by this boiler is used to heat water, the water will not be considered potable if the steam and potable water are mixed.

7) Direct Fired Instantaneous Heaters. (Storage tank of more than 64 fluid ounces.) Direct fired instantaneous water heaters shall be equipped with a thermostatic mixing valve or valves. A pressure relief valve shall be installed on or adjacent to the heater. A temperature and pressure relief valve shall be installed on the tempered line with the temperature sensing element immersed in the tempered water pipe as close as possible to the mixing valve.

A) Point-of-use instantaneous water heaters (high temperature, non-storage or storage of 64 fluid ounces or less, non-pressurized relative to atmosphere) shall meet the following requirements: Units intended to deliver temperature exceeding 110°F, or with no mechanical or electrical temperature limiting device must have the faucet located at least 3" from the 110° hot water or cold water faucet. All such faucet outlets shall have labels clearly and conspicuously indicating extremely hot water.

B) All pressurized point-of-use water heaters shall have provisions as a part of the unit to provide temperature and pressure relief. Valves shall be set to relieve at 20° above controlled set point and at 125 psi or at 15 psi below pressure rating of lowest rated part of the assembly, whichever is the lowest.

8) Indirect, External, Submerged Coils. Indirect, external, tankless or submerged coils used in heating water shall be equipped with a thermostatic mixing valve or valves when not connected to a storage tank. A pressure relief valve shall be installed on the cold water inlet of the tank. A temperature and pressure relief valve shall be installed on the tempered line with the sensing element immersed in the tempered water line as close as possible to the mixing valve.

9) Steam Heat. All water heaters including storage heaters, instantaneous shell and tube heat exchangers, steam injection heaters and any other device using steam to heat water for potable use shall meet the following requirements:

A) All chemicals and additives used to treat the boiler feed water in a boiler supplying steam to heat potable water must be approved for potable water.

B) Steam pressure to the steam injector shall be 15 psi lower than the water pressure at the injector.

10) Temperature Override Protection. All water heating devices using steam to heat water for domestic purposes must be supplied with temperature controls to prevent users of this heated water from coming in contact with water at temperatures in excess of 120°F.

b) Water Heaters - Food Service. Water heaters installed and utilized in food service establishments using dishwashing machines shall comply with National Sanitation Foundation (NSF) Standard Number 5.

c) A water heater conforming to ANSI 221.10.1a-1988 to be used for hot water supply and space heating shall be constructed for continuous use and the piping for space heating shall be used for no other purpose than to an approved terminal heating device.

Section 890.1660 Safety Devices

a) Pressure Relief Valves Reference ANSI, Z21.22 74. Pressure relief

valves shall have a relief rating adequate to meet the pressure conditions in the equipment served. They shall be installed in the cold water supply line to the heating equipment served, except where scale formation from hard water my be encountered, in which case they shall be installed in the hot water supply line from the heating equipment served. There shall not be a shut off valve between the pressure relief valve and the tank. The pressure relief valve must be set to open at a maximum of the working pressure rating of the water heater, but shall not exceed 150 psi. Each pressure relief valve shall have a test lever.

b) Temperature Relief Valve. Temperature relief valves shall be of adequate relief rating, expressed in Btu input per hour for the equipment served. They shall be installed so that the temperature sensing element is immersed in the hottest water within the top six (6) inches of the tank. The valve shall be set to open full when the stored water temperature is 210 degrees Fahrenheit or less.

c) Combination Pressure Temperature Relief Valves.

1) Combination pressure temperature relief valves shall comply with the applicable requirements for individual pressure and individual temperature relief valves, and shall be installed so that the temperature sensing element is immersed in the hottest water within the top six (6) inches of the tank and have a test lever.

2) All equipment used for heating water or storing hot water shall be provided at the time of installation of such equipment, with a reseating type temperature and pressure relief valve constructed, listed, and installed in accordance with the nationally recognized standard for such devices. This requirement is in addition to the energy cut off device installed by the heater manufacturer.

3) Energy cut off devices shall be of adequate performance rating for the equipment served.

4) A check valve or shut off valve shall not be installed between any safety device and the hot water equipment, nor shall there be any shut off valve in the discharge pipe from the relief valve. See Exhibit E: Illustrations N and O.

d) Relief Discharge Outlet. A relief discharge outlet shall be indirectly connected. The discharge pipe from the relief valve shall not be located so as to create a safety hazard or to discharge in such a way as to cause damage to the building or its contents; in no circumstances shall the relief valve discharge piping protrude

through a wall and discharge into the outside atmosphere or where there is a possibility of freezing. No reduced coupling or other restriction shall be installed in the discharge line of any type of relief valve. A discharge line shall be installed from the relief valve to within six (6) inches of the floor or receptor and the end of such line shall not be threaded. Any piping used for discharge of liquid from the relief valve must be of metallic material and conform with the requirements of Exhibit G, Table F for potable water piping and shall drain continuously downward to the outlet. The discharge piping shall discharge indirectly into a floor drain, hub drain, service sink, sump or a trapped and vented P trap. See Sections 890.1410 and 890.1460(a), (b), and (c) of this Part. The trap must have a deep seal to protect against evaporation or shall be fed by means of a priming device designed and installed for that purpose. The use of a light grade oil in the trap will retard evaporation. No building storm drain shall receive the discharge from a relief valve unless the storm drain piping conforms to the requirements of Table D for drain, waste and vent (DWV) systems within a building.

e) Pressure Marking Hot Water Storage Tank. Hot water storage tanks shall be permanently marked in a accessible place with the maximum allowable working pressure, in accordance with the applicable standard.

f) Vacuum Relief Valve. Where a hot water storage tank or water heater is located at an elevation above the fixture outlets in the hot water system, or if the storage tank or water heater is bottom fed, a vacuum relief valve shall be installed on the storage tank or heater. Such vacuum relief valve shall comply with the nationally recognized standard for such devices.

g) Multiple Temperature Hot Water Systems. Such systems shall be provided with thermostatic mixing valves to properly control the desired temperatures.

Section 890.1670 Miscellaneous

a) Drain Cock. All storage tanks shall be equipped with adequate drain cocks.

b) Line Valves. Valves in the water-supply distribution system, except those immediately controlling one fixture supply, when fully opened, shall have a cross-sectional area of the smallest orifice or opening through which the water flows at least equal to the cross-sectional area of the nominal size of the pipe in which the valve is installed.

c) Water Used for Heating or Cooling. Water used for heating or cooling

of equipment or similar purposes shall not be returned to the potable water-distribution system. When such water is discharged to the building drainage system, the waste water shall be discharged through an indirect waste pipe or air gap.

SUBPART K: DRAINAGE SYSTEM

Section 890.1710 Materials

a) General. Piping, tubing, and fittings for drainage systems shall comply with the provisions of Subpart C.

b) Above-Ground Piping Within Buildings. Material used for above-ground piping within the building-See Exhibit G: Table D.

c) Underground Piping Within Buildings. All material used in underground piping within a building - See Exhibit G: Table D. Such system shall be extended beyond the footing or bearing wall to not less than five (5) feet.

d) Corrosive Waste. In certain cases where corrosive waste is carried in the drainage system, or where soil conditions make it necessary, a piping material other than that listed in Exhibit G: Table D may be used if approved in writing by the Department prior to installation.

e) Fittings. Fittings used in a drainage system shall be of the same material as the type material of piping used in such system. Fittings on screwed pipe shall be of the recessed drainage type.

Section 890.1720 Building Drain and Sewer Installation

a) Separate Trenches. See Section 890.1560.

b) Drain - Filled Ground. A building drain installed in filled ground shall be of cast iron; copper Type "K", non-metallic Schedule 40 or heavier. Except for cast iron, such installations shall be laid on a continuous supporting system.

c) Sanitary and Storm Drains. Where separate systems of sanitary drainage and storm drainage are installed in the same premises, the sanitary and storm building drains may be laid in a common trench.

d) Existing House Drains and Sewer. Existing house drains and sewer may be used in the renovation of the plumbing system of existing structures, if they are in serviceable condition.

e) Protection of Pipes. Trench bottoms shall be hand trimmed to grade with provision for bedding of the pipe throughout its entire length. Adequate excavations shall be made to accommodate the bells or couplings to prevent unnecessary stress. Joints shall be waterproof and root proof and shall be in accordance with the requirements contained in Subpart D. Trenches shall be backfilled and compacted to a distance of at least eighteen (18) inches above the top of the pipe with hand tools prior to the use of mechanical equipment used for backfilling purposes. See Section 890.300.

f) Horizontal Drainage Piping. Horizontal drainage piping shall be installed in a uniform slope. See subsections (g), (h) and (i) below.

g) Small Piping. Horizontal drainage piping of three (3) inch diameter or less shall be installed with a fall of not less than one-quarter (1/4) inch per foot. See Exhibit G, Table K.

h) Large Piping. Horizontal drainage piping larger than three (3) inches in diameter shall be installed with a fall of not less than one eighth (1/8) inch per foot. See Exhibit G: Table K.

i) Minimum Velocity. Where conditions do not permit building drains to be laid with a fall as great as that specified above, then a lesser fall may be permitted provided the computed velocity will not be less than two (2) feet per second.

j) Location of Drains. All building drains, branches of building drains, building sewer or any sanitary sewer may be located to within 10 feet of a well or suction line from the pump to the well when cast iron pipe with mechanical joints or Schedule 40 Polyvinyl Chloride pipe with water tight joints is used for the building sewer. Drains not conforming with this type of joint shall be located fifty (50) feet from a well.

Section 890.1730 Cleanouts

See Subpart E.

Section 890.1740 Drainage Fixture Units (D.F.U.)

a) Values for Fixtures. Drainage fixture units (D.F.U.) as given in Exhibit G: Table I designate the relative load weight of different kinds of fixtures which shall be employed in estimating the total load carried by a soil or waste pipe and shall be used in connection with the tables of sizes for soil, waste, and drain pipes for which the permissible load is given in terms of drainage fixture units (DFU).

b) Fixtures Not Listed in Exhibit G: Table I. Fixtures not listed in Exhibit G: Table I shall be estimated in accordance with Exhibit G: Table J.

c) Values for Continuous Flow. For a continuous or semi-continuous flow into a drainage system, such as from a pump, ejector, air-conditioning equipment, or similar devices, two drainage fixture units shall be considered for each gallon-per-minute of flow.

Section 890.1750 Determination of Sizes for Drainage System

a) Minimum Fixture-Unit Load. The maximum number of drainage fixture units that may be connected to a given size of building drain, horizontal branch, or vertical soil or waste stack is given in Exhibit G, Tables K and L.

b) Minimum Size of Building Drain, Horizontal Branch.

1) The minimum size of any gravity building drain shall be four (4) inches.

2) Pressure building drains shall not be used where gravity drains may be installed. Pressure building drains shall be sized in accordance with the ejector pump manufacturer's recommendation but shall not be less than two (2) inches in size.

3) Gravity drained horizontal branches of the building drain shall be sized in accordance with Exhibit G, Table K.

4) No portion of the drainage system installed underground or below a basement or cellar shall be less than two (2) inches in diameter.

5) The size of the drainage piping shall not be reduced in size in the direction of flow.

c) Minimum Size of Soil and Waste Stacks. No soil or waste stack shall be smaller than the largest horizontal branch connected thereto except that a 4 x 3 water closet connection shall not be considered as a reduction in pipe size.

d) Minimum Size of Stack Vent. Each structure in which building drains are installed shall have one (1) stack vent not less than three (3) inches in diameter carried full size through the roof to the outside atmosphere for each building drain. See Exhibit G, Table L.

e) Future Fixtures. When provision is made for the future installation

of fixtures, those provided for shall be considered in determining the required size of drain pipes and vent piping during initial construction. Piping provided for such future installation of fixtures shall be terminated with a plugged fitting or fittings at the stack so as to form no dead end. In a multistory building, when openings are roughed in for future fixtures below the uppermost level, properly sized vent piping shall be connected to the vent system and carried down to the appropriate lower level and capped or plugged in an accessible location for venting of the future fixtures.

Subpart L: Vents and Ventings

Section 890.1760 Offsets on Drainage Piping

a) Offsets of 45 Degrees or Less. An offset in a vertical stack, with a change of direction of 45 degrees or less from the vertical, may be sized as a straight vertical stack. In case a horizontal branch connects to the stack within two (2) feet above or below the offset, a relief vent shall be installed in accordance with Section 890.2070(c). See Exhibit E: Illustration P.

b) Waste Stacks Serving Kitchen Sinks. In a one (1) or two (2) family dwelling only in which the waste stack or vent receives the discharge of a kitchen-type sink and also serves as a vent for fixtures connected to the horizontal portion of the branch served by the waste stack, the minimum size of the waste stack up to the highest sink branch connection shall be two (2) inches in diameter. Above that point the size of the stack shall be governed by the total number of drainage fixture units vented by the stack.

c) Above Highest Branch. An offset above the highest horizontal branch is an offset in the stack vent and shall be considered only as it affects the developed length of the vent. See Exhibit E: Illustration Q.

d) Below Lowest Branch. In the case of an offset in a soil or waste stack below the lowest horizontal branch, no change in diameter of the stack because of the offset shall be required if it is made at an angle of not greater than 45 degrees. If such an offset is made at an angle greater than 45 degrees, the required diameter of the offset and the stack below it shall be determined as for a building drain. See Exhibit G: Table K. See Exhibit E: Illustration R.

e) Offsets of More Than 45 Degrees. A stack with an offset of more than 45 degrees from the vertical shall be sized as follows:

1) The portion of the stack above the offset shall be sized as for

a regular stack based on the total number of drainage fixture units above the offset.

2) The offset shall be sized as for a building drain. See Exhibit G: Table K.

3) The portion of the stack below the offset shall be sized as for the offset or based on the total number of drainage fixture units on the entire stack, whichever is the larger. See Exhibit G: Table L.

4) A relief vent for the offset shall be installed as provided in Section 890.2070 and in no case shall a horizontal branch connect to the stack within two (2) feet above or below the offset. See Exhibit E: Illustration S.

Section 890.1770 Sanitary Wastes Below Sewer

Sanitary Wastes Below Sewer.

1) Sanitary wastes which cannot be discharged by gravity flow shall be discharged into a gas-tight covered and vented sump from which the waste shall be lifted and discharged into the building gravity drainage system by automatic pumping equipment. See Exhibit E: Illustration T.

2) Sumps and ejectors handling sub-soil drainage and footing shall not receive any sewage.

b) Design. Sump and pumping equipment shall be so designed and installed as to discharge all contents accumulated in the sump during the cycle of emptying operation.

c) Venting. The system of drainage piping below the building drain level shall be installed and vented in the same manner as that of the gravity system.

d) Duplex Equipment. Sumps receiving the discharge of more than six (6) water closets shall be provided with duplex pumping equipment.

e) Vent Sizes. Building sump vents shall be sized in accordance with Exhibit G: Table O.

f) Separate Vents. See Section 890.2050.

g) Connections. No direct connection of a steam exhaust, blowoff, or drip pipe shall be made with the building drainage system. Waste

water, when discharged into the building drainage system, shall be at a temperature not higher than 180 degrees Fahrenheit. When higher temperature exists, proper cooling methods shall be provided.

Section 890.1780 Floor Drains

a) Required. Any building or structure in which plumbing is installed having a concrete floor, basement, or concrete over a crawl space shall have at least one (1) trapped floor drain. At least one floor drain shall be located in every restroom (having masonry floor) except those for private use. Additional floor drains shall be required if the installation of fixtures and appurtenances requires the use of floor drains. In a multi family dwelling, each unit shall require the installation of a floor drain if fixtures and appurtenances installed therein require the use of a floor drain. Floor drains will not be required in toilet/bath facilities of hospitals and nursing homes serving four or less individual residents where access to the facilities in hospitals and nursing homes serving rooms with greater than four residents or consisting of multiple toilets, lavatories, etc., will be required to have floor drains. Underground floor drains connected to a building drain or a building subdrain within four (4) feet of a stack shall be vented. All other floor drains shall be vented as required by SEction 890.2110(b) or Exhibit F, Table M. The floor drain shall be sized according to its intended use and/or surface area that it serves, and shall be connected to the sanitary drainage system. See Exhibit G: Tables I and J.

b) Accessibility. Floor drains shall connect into a trap that is accessible, and constructed so that it can be readily cleaned and of a size to serve efficiently the purpose for which it is intended. The drain inlet shall be so located that it is, at all times, in full view.

c) Provision for Evaporation. Floor drain seals subject to evaporation shall be of the deep seal type or shall be fed by means of a priming device designed and installed for that purpose.

d) Size. Floor drain traps and drains, installed below a basement floor or underground, shall be no less than two (2) inches in diameter.

e) Floor Drain Connection. All floor drains shall discharge to the building drain or the building subdrain.

f) Bell Traps. Bell traps are prohibited.

g) Floor Drains Prohibited or Restricted. The installation of floor

drains in coolers, freezers, refrigerated holding areas, dressing rooms or processing rooms in any food (meat, milk, vegetable, fruit) establishment is not recommended. If floor drains are installed they shall meet the following requirements:

1) All floor drains shall have a minimum inside diameter of four (4) inches and be of metallic construction.

2) Drainage lines from water closets and urinals shall not be connected with any other sanitary drainage lines (having floor drains located in the above places) within the building.

3) All floor drains must be indirectly connected to the drainage system or else a backwater valve that conforms with the requirements of Section 890.930(b), (c), (d) and (e) of this Part shall be installed.

4) All floor drains shall comply with the requirements of Section 890.1780(b), (c), (d), (e) of this Part.

Section 890.1790 Frost Protection

DWV Piping. DWV piping shall not be installed on the outside of a building. DWV piping shall not be concealed in an outside wall or any place where such piping may be subject to freezing unless provisions are made to protect such piping.

Section 890.1800 Storm Water Drainage Within a Building

Any piping installed within a building for the purpose of carrying storm water from a roof shall conform with the requirements of Exhibit G, Table D and Sections 890.1310 through 890.1360.

SUBPART L: VENTS AND VENTING

Section 890.1910 Materials

a) Venting System. See Exhibit G: Table D.

b) Fittings. Fittings shall conform to the type of pipe used in the vent system.

c) Acid-Waste System. Vent piping for material acid-waste systems shall be the same type of material installed for the acid-waste system.

d) Mechanical Device. Mechanical device(s) shall not be installed in the plumbing vent system in lieu of vent piping.

Section 890.1920 Protection of Trap Seals

The protection of trap seals from siphonage, aspiration, or back-pressure shall be accomplished by the appropriate use of soil or waste with adequate venting. The venting system shall be designed and installed so that at no time shall trap seals be subjected to a pneumatic pressure differential of more than one (1) inch of water pressure under design load conditions. If a trap seal is subject to loss by evaporation, means shall be provided to prevent loss of trap seal.

Section 890.1930 Vent Stacks

a) Installation. A vent stack or a main vent shall be installed with a soil or waste stack whenever back vents, relief vents, or other branch vents are required waste branches. See Exhibit F: Illustration A.

b) Terminal. The vent stack shall terminate independently above the roof to the outside atmosphere or shall be connected to the stack vent at least six (6) inches above the flood-level rim of the highest fixture. See Exhibit F: Illustration B.

c) Main Stack. Every building in which plumbing is installed shall have at least one main stack for each building drain installed. See Exhibit G: Table L. See Exhibit F: Illustration C.

Section 890.1940 Vent Terminals

a) Roof Extensions. Extensions of vent pipes through a roof shall be terminated at least 12 inches above such roof.

b) Roof Garden. Where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least seven (7) feet above the roof. See Exhibit F: Illustration D.

c) Flashings. Each vent terminal shall be made water-tight with the roof by proper flashing.

d) Flag Poling. Vent terminals shall not be used for the purpose of flag poling, television (TV) aerials, or similar purposes.

e) Location of Vent Terminal. No vent terminal from a drainage system shall be directly beneath a door, window, over-hang or other ventilating intake opening of the building, nor shall any such vent terminal be within 12 feet horizontally of such an opening unless it is at least two (2) feet above the top of such opening. See Exhibit F: Illustration E.

f) Extensions Outside Building. No soil, waste or vent pipe extension shall be run or placed on the outside of a wall of any building, but shall be carried up inside the building. See Section 890.1790.

Section 890.1950 Frost Closure

a) Vent Terminals. Each vent extension through the roof shall be a minimum of three (3) inches in diameter and in no instance, be smaller than the vent which it terminates. Vent terminals shall not be screened.

b) Increasers. Changes in diameter of vent terminals shall be made by the installation of a long increaser commencing at least one (1) foot below the roof.

Section 890.1960 Vent Grades and Connections

a) Grade. All vent and branch-vent pipes shall be graded a minimum grade of one-eighth (1/8) inch per foot and connected as to drain back to the soil or waste pipe. See Exhibit F: Illustration F.

b) Vertical Rise. Where vent pipes connect to a horizontal soil or waste pipe, the vent shall be taken off above the center line of the soil or waste pipe, and the vent pipe shall rise vertically, or at an angle not more than 45 degrees from the vertical before offsetting horizontally or before connecting to the branch vent. See Exhibit F: Illustration G.

c) Height Above Fixtures. The connection between a vent pipe and a vent stack or stack vent shall be made at least six (6) inches above the flood-level rim of the highest fixture served by the vent. Horizontal vent pipes forming branch vents or relief vents shall be at least six (6) inches above the flood-level rim of the highest fixture served. See Exhibit F: Illustration H.

d) Heel or Side-Inlet. Heel or side-inlet quarter or closet bends are permitted only in cases where the fixtures connecting thereto is vented. See Section 890.240(b). See Exhibit F: Illustration I.

Section 890.1970 Fixtures Back-to-Back

Distance. Two fixtures set back-to-back, within the distance allowed between a trap and its vent, may be served with one continuous soil or waste-vent pipe, provided that each fixture wastes separately into an approved double fitting having inlet openings at the same level. See Section 890.1990(b). See Exhibit F: Illustration J.

Section 890.1980 Fixture Trap Vents

a) Distance of Trap From Vent. Each fixture trap shall have a protecting vent so located that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in Exhibit G: Table M. See Exhibit F: Illustration K.

b) Trap-Seal Protection.

1) The plumbing system shall be provided with a system of vent piping which will permit the admission or emission of air so that under normal and intended use, the seal of fixture trap shall not be subjected to a pressure differential of more than a one (1) inch water column. See Section 890.450.

2) All trap seals subjects to evaporation shall be of the deep seal type or shall be fed by means of an approved automatic priming device.

d) Trap Weir. The vent pipe opening from a soil or waste pipe, except for water closets or fixtures with an integral trap, shall not be below the trap weir. See Exhibit F: Illustration L.

Section 890.1990 Types of Fixture Trap Vents

a) Trap Vents. No trap vent shall be installed within two pipe diameters of the trap weir. See Exhibit F: Illustration M.

b) Individual Vent. An individual vent is a vent that vents one fixture trap.

c) Common Vent. A common vent, installed vertically, may be used for two fixture traps when both traps connect with a vertical waste at the same level. See Exhibit F: Illustration N.

d) Vertical Wet Vent. A vertical wet vent may be used for two fixtures set on the same floor level, but connecting at different levels in the stack, provided the vertical drain is one (1) pipe diameter larger that the upper fixture drain and that both drains conform to Exhibit G: Table M. See Exhibit F: Illustration O and Exhibit A: Illustration W.

Section 890.2000 Installation of Vents for Fixture Traps

a) Hydraulic Gradient. Fixture drains shall be vented within the hydraulic gradient between the trap outlet and vent connection. The

hydraulic gradient as applied to a gravity drain and its vent connection is interpreted as the grade line. See Exhibit G, Table M. See Exhibit F, Illustration P.

b) Different Level. If any stack has fixtures entering at different levels, the fixtures other than the fixtures entering at the highest level shall be vented, except as otherwise provided. See Section 890.2020.

c) Horizontal drains. When fixtures discharge downstream from a water closet, each fixture downstream shall be individually vented.

Section 890.2010 Installation of Wet Venting

a) Single Bathroom Groups. A single bathroom group of fixtures may be installed with the drain from a back vented lavatory, a kitchen sink, or combination fixture serving as a wet vent for a bathtub or shower and for the water closet, provided that:

1) not more than four (4) drainage fixture units drain into a two (2) inch diameter wet vent.

2) the horizontal branch shall be a minimum of two (2) inches and connect to the stack at the same level as the water closet drain or below the water closet drain when installed on the top floor. It may also connect to the water closet bend. See Exhibit F: Illustration Q.

b) Double Bath. Bathroom groups back to back on the top floor consisting of two (2) lavatories and two (2) bathtubs or showers may be installed on the same horizontal branch with a common vent for the lavatories and with no back vent for bathtubs or showers, provided the wet vent is two (2) inches in diameter, and length of the fixture drain conforms to Exhibit G: Table M. See Exhibit F: Illustration R.

c) Multistory Bathroom Groups.

On the lower floors of a multistory building, the waste pipe from one (1) or two (2) lavatories may be used as a wet vent for one (1) or two (2) bathtubs or showers provided that:

1 The wet vent and its extension to the vent stack is two (2) inches in diameter.

2 Each water closet below the top floor is individually back vented.

3 The vent stack is sized as given in Exhibit G: Table N. See Exhibit F: Illustration S and T.

Section 890.2020 Stack Venting

One-Bathroom Group. Except as provided in Section 890.2000(b), a group of fixtures, consisting of one (1) bathroom group and a kitchen sink or combination fixture, may be installed without individual fixture vents, in a one-story building or on the top floor of a building, provided each fixture drain connects independently to the stack and the water closet and bathtub or shower drain enters the stack at the same level and in accordance with the requirement in Exhibit G: Table M. See Exhibit F: Illustrations U and V.

Section 890.2030 Individual Fixture Reventing

See Section 890.1990.

Section 890.2040 Circuit and Loop Venting

a) Battery Venting. A branch, soil or waste pipe to which two (2) but not more than eight (8) water closets pedestal urinals, shower stalls or floor drains are connected in battery, shall be vented by a circuit vent which shall take off in front of the last fixture connection. In addition, lower-floor branches serving more than three (3) water closets shall be provided with a relief vent taken off in front of the fixture connection. The horizontal branch for its full length to the furthest fixture opening shall be uniformly sized based on the total drainage fixture load as listed in Exhibit G: Tables K and L. When lavatories or similar fixtures discharge above such branches, each vertical branch shall be provided with a continuous vent. See Exhibit F: Illustration W.

b) Dual Branches. When parallel horizontal branches serve a total of eight (8) water closets (four on each branch), each branch shall be provided with a relief vent at a point between the two most distant water closets. The horizontal branch for its full length to the furthest fixture opening shall be uniformly sized based on the total drainage fixtures load as listed in Exhibit G: Tables K and L. In addition, intermediate floor branches shall be provided with a relief vent taken off in front of the first fixture connection. When traps other than water closets discharge above the horizontal branch, each such trap shall be provided with a continuous vent. See Exhibit F: Illustration X.

c) Vent Connections. When the circuit or relief vent connections are taken off the horizontal branch, the vent branch connection shall be taken off at a vertical angle from the top of the horizontal branch.

See Exhibit F: Illustration X.

d) Fixtures Back-To-Back in Battery. When fixtures are connected to one (1) horizontal branch through a double "Y", or a sanitary cross in a vertical position, a common vent for each two fixtures back-to-back shall be provided. See Exhibit F: Illustration Z.

e) Fixture Connections. Branch wastes and fittings for circuit vented fixtures shall set so that the fixture drain shall enter the side of the branch drain. See Section 890.230(a) and Exhibit F: Illustrations W and AA.

f) Circuit and Loop Vented Fixtures. When circuit and loop vented fixtures are installed in a multi-story building, a relief vent shall be provided at the base connection into the horizontal. This is done by connecting the vent stack, full-size, into or near the base of the soil stack, or by connecting the vent stack directly into the horizontal branch near the soil stack. The vent shall be carried full size.

Section 890.2050 Pneumatic Ejectors

Vent for Ejectors. A relief vent from a pneumatic ejector shall not be connected to a fixture branch but shall be carried separately to the outside atmosphere. A pneumatic ejector operates under high air pressure. If the relief vent or any part of the discharge system is connected to the gravity system, there is the possibility of blowing the trap seals of nearby fixtures.

Section 890.2060 Relief Vents

Stacks of More Than Ten (10) Branch Intervals. Soil and waste stacks in buildings having more than ten (10) branch intervals shall be provided with a relief vent at each tenth interval installed, beginning with the top floor, or may be installed mid-way between the first and twentieth interval. The size of the relief vent shall be equal to the size of the vent stack to which it connects. The lower end of each relief vent shall be equal to the size of the vent stack to which it connects. The lower end of each relief vent shall connect to the soil or waste stack through a WYE below the horizontal branch serving the floor and the upper end shall connect to the vent stack through a WYE not less than 42 inches above the floor level.

Section 890.2070 Offsets at an Angle Less Than 45 Degrees from the Horizontal in Buildings of Five (5) or More Stories

a) Offset Vents. Offsets less than 45 degrees from the horizontal in a soil or waste stack, except as provided in Section 890.1760, shall comply with Subsections (b) and (c) below. See Exhibit F: Illustration AA.

b) Separate Venting. Such offsets may be vented as two separate soil or waste stacks, namely, the stack section below the offset and the stack section above the offset.

c) Offset Reliefs. Such offsets may be vented by installing a relief vent as a vertical continuation of the lower section of the stack or as a side vent connected to the lower section between the offset and the next lower fixture or horizontal branch. The upper section of the offset shall be provided with a yoke vent. The diameter of the vents shall not be less than the diameter of the main vent, or of the soil or waste stack, whichever is the smaller.

Section 890.2080 Main Vents to Connect at Base

Main Vents. All main vents or vent stacks shall connect full size at their base to the building drain or to the main soil or waste pipe, at or below the lowest fixture branch. All vent pipes shall extend undiminshed in size through the roof to the outside atmosphere, or shall be reconnected with the main soil or waste vent. See Exhibit F: Illustration BB.

Section 890.2090 Vent Headers

Connection of Vents. Stack vents and vent stacks may be connected into a common vent header at the top of the stacks and then extended through the roof to the outside atmosphere at one point. This header shall be sized as provided in Exhibit G: Table O, the number of units being the sum of all units on all stacks connected thereto and the developed length being the longest vent length from the interception at the base of the most distant stack to the vent terminal to the outside atmosphere, as a direct extension of one stack.

Section 890.2100 Size and Length of Vents

a) Length of Vent Stacks. The length of the vent stack or main vent shall be its developed length from the lowest connection of the vent system with the soil stack, waste stack, or building drain to the vent stack terminal, if it terminates separately to the outside atmosphere, or to the connection of the vent stack with the stack vent, plus the developed length of the stack vent from the connection to the terminal to the outside atmosphere, if the two (2) vents are connected together with a single extension to the outside atmosphere.

b) Size of Water Closet Vents. Water closet shall not have less than a two (2) inch vent.

c) Size of Individual Vents. The diameter of an individual vent shall be not less than one and one-quarter (1-1/4) inches or less than one-half (1/2) the diameter of the drain to which it connects. See Subsection (b) above.

d) Size of Relief Vents. The diameter of a relief vent shall be not less than one-half (1/2) the diameter of the horizontal soil or waste branch to which it is connected. See Subsection (b) above.

e) Size of Circuit Vents. The diameter of a circuit vent shall be not less than one-half (1/2) the diameter of the horizontal soil or waste branch or the diameter of the vent stack, whichever is smaller. See Exhibit G: Table P and Subsection (b) above.

f) Size of Vent Piping. The nominal size of vent piping shall be determined from its length and the total number of drainage fixture units connected thereto as provided in Exhibit G: Table O. Vent piping serving floor drains shall be installed in such a manner as to minimize horizontal vent distances. See Subsection (b) above.

Section 890.2110 Combination Waste and Vent (Floor Drains, and Hub Drains)

a) See Section 890.1750.

b) Combination Waste and Vent. A combination waste and vent shall be permitted only where structural conditions preclude conventional plumbing. A combination waste and vent is an installation of waste piping end vented for the discharge of condensate or drip waste. Appurtenances delivering large quantities or surges of water may not be discharged to a combination waste and vent.

1) The waste pipe and trap in such a system shall be at least two (2) pipe sizes larger than the pipe size required by Exhibit G, Table K, of this Code and at least two pipe sizes larger than any fixture/appurtenance discharge tail piece.

2) A branch more than fifteen (15) feet in length shall be separately vented. The minimum area of any vent installed in a combination waste and vent system shall be one-half (1/2) the area of the drain pipe served.

3) Sinks, lavatories and other fixtures that rough-in above the floor, shall not be permitted on a combination waste and vent system.

4) Long mains shall be provided with additional relief vents located at intervals of every one-hundred feet. The relief vent shall be equal to at least one-half (1/2) of the area of the drain pipe served.

5) The minimum size of any combination waste and vent drainage line shall be four (4) inches in diameter.

6) A combination waste and vent is waste piping which serves as a horizontal vent for one or more floor drains. The dual function is accomplished by installing waste piping of sufficient size to provide free movement of air above the flow line of the drain. Pipe sizing is essential in the installation of a combination waste and vent to prevent trap siphonage. (See Exhibit F, Illustration CC).

Section 890.2120 Special Venting for Island Fixtures

a) Traps for island sinks and similar equipment shall be roughed-in above the floor and may be vented by extending the vent as high as possible, but not less than the drain board height and then returning it downward and connecting it to the horizontal sink drain immediately down the stream from the vertical fixture drain.

b) The returned vent shall be connected to the horizontal drain through a Y-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a Y-branch immediately below the floor and extending to the nearest partition and thence through the roof to the outside atmosphere or may be connected to other vents at a point not less than six (6) inches above the flood level rim of the fixture served. Drainage fittings shall be used on all parts of the vent below the floor level and a minimum slope of one-quarter (1/4) inch per foot back to the drain shall be maintained. The returned bend used under the drain board shall be a one-piece fitting or assembly of a 45 degree, a 90 degree, and a 45 degree elbow in the order named. See Section 890.1750.

c) Requirements

1) Extend vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain.

2) The returned vent shall be connected to the horizontal drain through a Y-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a Y-branch immediately below the floor and extending to the nearest partition and thence through the roof or connected to other vents, in an approved manner as shown in Exhibit F: Illustration DD.

3) Drainage fittings shall be used on all parts of the vent below the floor and a minimum slop of 1/4 inch per foot back to the drain shall be maintained.

4) The return bend under the drainboard shall be a one-piece fitting or an assembly of a 45°, a 90°, and a 45° in the order named.

SUBPART M: INSPECTION, TESTS, MAINTENANCE, AND ADMINISTRATION

Section 890.2210 Inspections

a) Required. A plumbing system or any part thereof shall not be enclosed, covered up or used until after such system has been inspected and approved. It is the responsibility of the licensed plumber or plumbing contractor on the job to arrange for such inspection with the Department. The Department may require whatever tests are deemed necessary to determine whether or not the system as installed is in compliance with the plumbing code or otherwise defective or unsafe. Plumbing found not to be in compliance with the Plumbing Code or otherwise defective or unsafe shall not be approved. The use of a plumbing system not complying with the provisions of the Plumbing code or found to be defective or unsafe shall not be approved until such time as such plumbing system is brought into compliance with the Plumbing Code.

b) Reinspection. It is the responsibility of the licensed plumber or plumbing contractor to arrange for reinspection of the plumbing system by the Department. Request for reinspection shall be made at least 24 hours before such inspection is to be made.

Section 890.2220 Testing of Plumbing System

Defective Plumbing. Where there is reason to believe that the plumbing system is defective, it shall be subjected to tests, inspected, and any defects found shall be corrected.

a) Exposure of Work. When plumbing work has been covered or concealed prior to being tested and approved, it shall be exposed for testing. It is the responsibility of the licensed plumber or plumbing contractor to expose plumbing for inspection purposes.

b) Equipment. Material and Labor for Tests. All equipment, material and labor required for inspection and testing a plumbing system or any part thereof is the responsibility of the licensed plumber or plumbing contractor to expose plumbing for inspection purposes.

Section 890.2230 Test Methods

Drainage and Vent Systems

a) Roughed/In Plumbing. Except for outside conductors and downspouts and perforated or open/jointed drain tile, the piping of plumbing drainage and venting systems shall be tested upon completion of the roughed/in piping installation by water or air and proved watertight. Department may require the removal of any cleanout plugs to ascertain if the pressure has reached all parts of the system.

1) Water test. The water test shall be applied to the drainage system either in its entirety or in sections after piping has been roughed/in. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system filled with water to point of overflow. If the system is tested in sections, each opening shall be filled with water, but a section shall not be tested with less than a (10) foot head of water. In testing successive section, at least the upper ten (10) feet of the next preceding section shall be tested, so that a joint or pipe in the building (except the uppermost ten (10) feet of the system) shall not have been submitted to a test of less than a ten (10) foot head of water. The water shall be kept in the system or in the portion being tested for at least fifteen (15) minutes before inspection starts; the system shall be tight at all points.

2) Air test. The air test shall be made by attaching an air compressor testing apparatus to any suitable opening and after closing all other inlets and outlets to the system, forcing air into the system until there is a uniform gauge pressure of five (5) pounds per square inch (psi) or sufficient to balance a column of mercury ten (10) inches in height. This pressure shall be held without introduction of additional air for a period of at least fifteen (15) minutes.

b) Finished Plumbing. After the plumbing fixtures have been set and their traps filled with water, their connections shall be tested and proved gas and water/tight. The following test method shall be employed.

Final test for gas and water tightness. The final test for gas and water tightness of the completed drainage and vent system may be made by a smoke test. A smoke test is made by filling all traps with water, and then introducing into the system a pungent, thick smoke produced by one or more smoke machines. When the smoke appears at stack openings on the roof, the stack opening shall be closed and a pressure equivalent to a one (1) inch water column shall be built and maintained for the period of the inspection. Where the Department, due to practical difficulties or hardships, finds that a smoke test cannot be

performed, a peppermint test may be substituted. A peppermint test is conducted by the introduction of two (2) ounces of oil or peppermint into the roof terminal of every line or stack to be tested. Immediately after the oil of the peppermint is introduced into the system, ten (10) quarts of hot(one/hundred sixty degrees Fahrenheit(160° F.)) or hotter water shall be added, and each terminal sealed. The detection of the odor of peppermint at any trap or at any other point in the plumbing system denotes a leak. Oil of peppermint, or persons whose body or clothes have come in contact with oil of peppermint, shall be excluded from the test area.

c) Building Sewer. The building sewer shall be tested by insertion of a test plug at the point of connection with the public sewer. The building sewer shall be filled with water under a head of not less than ten (10) feet. The water level at the top of the test head of water shall not drop for at least fifteen (15) minutes.

d) Water Supply System. Upon completion of a section, or the entire water supply system, the system shall be tested and proved tight under a water pressure not less than one and one/half (1-1/2) times the working pressure but not less than 100 psi, by air or water. When exceeding 100 psi, the test shall be of the hydrostatic type only. Testing pressure shall be maintained for fifteen (15) minutes. The water used for this test shall be from a potable water supply.

Section 890.2240 Maintenance

General. All plumbing and drainage systems, both existing and new, and all parts thereof, shall be maintained in a functional, safe and sanitary condition. All devices or safeguards which are required by the Plumbing Code shall be maintained in good working order. The owner of his designated agent shall be responsible for the maintenance of the plumbing system.

Section 890.2250 General Administration

The plans and specifications for a plumbing system whose design differs from the conventional type plumbing system, the aspects of which are described in this Code, must be submitted to the Department for approval prior to installation of such a plumbing system. Such approval shall be in writing from the Department.

Section 890.2260 Plumbing Code

Minimum Standards for Plumbing. The Illinois State Plumbing Code contains the minimum standards for plumbing in the State of Illinois.

Section 890.2270 Inspections

a) Compliance with Plumbing Code. The Department shall make routine plumbing inspections to ascertain compliance with the Plumbing Code and shall investigate complaints involving plumbing.

b) Right of Entry. The authorized representative of the Department shall after proper identification, have the right, subject to constitutional limitations, to enter any premises for the purpose of enforcing this Code or the Act.

Section 890.2280 Violations

a) Notice of Violation.

1) Violators of the Plumbing Code shall be informed of any violation at the time of inspection, followed by a formal notice in writing, including a deadline date for correction of the violation(s).

2) Factors to be considered in establishing deadline dates for correction shall include the nature and complexity of the violation, the stage of construction, the type of violation involved, the weather, and whether or not the violation represents a potential or immediate health hazard.

b) Reinspection. Upon receipt of information from the violator indicating correction of violations or upon expiration of the established deadline date, a reinspection shall be made.

Section 890.2290 General

a) The plans and specifications for a plumbing system whose design differs from the conventional type plumbing system, the aspects of which are described in this Code, must be submitted to the Department for approval prior to installation of such a plumbing system. Such approval shall be in writing from the Department.

b) Factors to be considered in such approval will include hydraulics, pneumatics, structures, materials, location, water chemistry and temperature, and ability of the proposed installation to comply with the intent of this Code.

SUBPART N: PLUMBING SYSTEMS/CORRECTIONAL FACILITIES

Section 890.3010 Water Closets

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

a) All stainless steel water closets shall be of stainless steel (Type 304) construction, including framework, reinforcing and interior piping.

b) The bowl and flushing rim shall not be less than 14 gauge.

c) The closet shall have a minimum of a three (3) inch, fully enclosed stainless steel P-trap and shall pass a 2-5/8" ball.

d) All welds shall be ground smooth, and exterior surfaces polished.

e) Integral contoured seats that are self draining and crevice-free shall be a part of the water closet.

f) Vitreous china water closets complying with ANSI Standard A.112.19.1 may be used.

Section 890.3020 Urinals

All stainless steel urinals shall be fabricated of stainless steel (Type 304) with exposed edges polished. All exposed welds are to be ground smooth. All construction is to be free from visible voids, seams or crevices. The trap shall provide a two (2) inch seal and pass a 1.9" ball. It shall be fitted with a integrally welded steel beehive dome strainer. (Vitreous china urinals (A.112.19.2) may be used.)

Section 890.3030 Combination Lavatory/Toilet

a) The cabinet shall be of stainless steel (Type 304) with a minimum of 12 gauge for the cabinet and 14 gauge for the top.

b) The cabinet top shall have a backsplash.

c) The lavatory shall include metering valves on the hot and cold self-closing filler valve with a maximum 1/2 gpm flow control and a combination penal filler/bubbler spout. A maximum of 105°F temperature is allowed.

d) The lavatory drain shall not have a mechanical air vent attached.

e) Supply inlets to the lavatory shall have screw driver stops, gate or globe valves.

f) The water closet shall have no less than a three (3) inch, fully enclosed stainless steel toilet P-trap and shall pass a 2 5/8" ball.

Section 890.3040 Service Sinks/Lavatory

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

a) Stainless steel Security Sinks/Lavatories shall be fabricated of stainless steel (Type 304) with the exterior surfaces polished. All exposed welds are to be ground smooth and there shall be no visible voids, seams or crevices. (Cast iron (A.112.19.1M) or vitreous china (A.112.19.2) sinks may be used.)

b) Security Sink/Lavatory shall include the following features; self- closing valve set with integral stops, gate or globe valves, reversible union inlets, and plain-end filler spout; grid strainer drain, elbow waste with a two (2) inch NPT female connection.

c) The waste assembly shall conform with Section 890.730(b)(1), and be of brass, copper or bronze construction.

d) Drains with air vents are prohibited.

Section 890.3050 Sinks

a) All stainless steel sinks for food preparation or cleansing of utensils used to prepare food shall be of stainless steel (Type 304) construction, including framework and reinforcing. (Cast iron (A.112.19.1M) may be used.)

b) All welds shall be ground smooth, and exterior surfaces polished.

c) All sinks shall be provided with waste outlets not less than 1-1/2 inches in diameter. A crossbar, strainer, or other means shall be provided to restrict the clear opening of the waste outlet. No kitchen sink basket shall be less than 3-1/2 inches in diameter.

d) Waste lines and water supply lines shall conform with Sections 890.210 through 890.2120.

Section 890.3060 Cabinet Showers

a) All cabinet showers shall be a unitized one-piece fixture of stainless steel with the exposed surfaces polished, except the receptor which shall have a non-skid surface. All exposed welds shall be ground smooth and all construction is to be free of visible voids, seams or crevices.

b) Shower compartments shall have not less than 1,024 square inches of floor area, and if rectangular, square, or triangular in plan, shall be not less than thirty (30) inches in shortest dimension, excluding the threshold.

c) The valve shall be a metering type with a maximum of 2.5 gallons per minute flow control, integral screwdriver stop, gate or globe valves.

d) The shower shall include a stainless steel soap dish, shower head and clothes hook, designed for correctional facility use.

e) The shower head within shower cabinets or site constructed showers shall be located in such a manner so as not to pose an insanitary or nuisance condition outside the shower area. The shower heads are to be on a side wall or over-head so as not spray water out of the shower cabinet or area and create a hazard on the tile floor or cause water to pond in areas other than the shower area.

Section 890.3070 Flush Valves

a) All flush valves for water closets or urinals shall conform with Sections 890.1070 (e) and 890.1080 (b) of this code.

b) All flush valves shall feature rubber diaphragm operation, non-hold-open, push buttons (and handles), union check stops and plumbing code approved vacuum breakers. See Sections 890.1050, 890.1540 (c), and 890.1550 (a), (b) and (c).

c) Flush valves shall be concealed wherever possible.

Section 890.3080 Soap Dishes

Soap dishes shall be of the air circulating, self draining design.

Section 890.3090 Floor Drains

All floor drains shall be properly trapped and vented with each drain cover securely anchored by means of vandal resistant screws.

Section 890.4000 General Requirements

a) All material, fittings, appurtenances, devices shall be in accordance with standards listed in Section 890.Table D - Exhibit G.

b) The drainage and venting for security fixtures shall be in accordance with Sections 890.1710 through 890.1790, 890.1410 through 890.1470 and 890.1910 through 890.2120.

c) The water supply for security fixtures shall be in accordance with Sections 890.1510 through 890.1670. Note: A full-way valve for each cell shall be located outside the cell.

Section 890.APPENDIX A Storm Drains

GENERAL

DRAINAGE REQUIRED. Roofs, paved areas, yards, courtyards, and similar areas shall be drained into a storm sewer system or to an adequate surface water course.

PROHIBITED DRAINAGE. Storm water shall not be drained into a sanitary sewer.

TRAPS. Leaders and storm drains, connected to a combined sewer shall be trapped and provided with a cleanout terminating at grade level.

EXPANSION. Adequate provisions for expansion-contraction shall be provided when warranted by temperature variations or physical conditions. See Illustration A of this Appendix.

SUB-SOIL DRAINS. Sub-soil drains shall not be less than four (4) inches in diameter and shall be of a material listed in Exhibit G: Table D. Sub-soil drains may discharge to an area drain or sump. Sub-soil sumps only do not require venting. When separate sanitary and storm sewers are provided, the sub-soil drain shall connect to the storm sewer or discharge to an adequate surface water course.

MATERIALS

See Exhibit G: Table D.

STORM DRAIN INSTALLATION

Sub-soil drains shall be laid in granular material (washed gravel or stone 0 3/4 inch minimum - 4 inch maximum) with a minimum of six (6) inches of the granular material surrounding the pipe on all sides.

TRAPS

MATERIAL. See Exhibit G: Table D.

INDIVIDUAL TRAPS. Individual storm water traps shall be installed on the storm water drain branch serving each conductor or downspout, or a single trap may be installed in the main storm drain or sewer before its connection to the combined public sewer.

TRAPS NOT REQUIRED. Traps are not required for storm-water drains which are connected to a sewer carrying storm water exclusively.

TRAPS FOR INDIVIDUAL CONDUCTORS. Traps for individual conductors and downspouts shall be the same size as the horizontal branch drain to which they

are connected.

CONDUCTOR TRAPS. Conductor or downspout traps shall be equipped with an accessible cleanout installed on the sewer side of the trap.

CONDUCTORS AND CONNECTIONS

CONDUCTORS. Conductors and downspout pipes shall not be used as soil, waste, or vent pipes; nor shall soil, waste, or vent pipes be used as conductors or downspouts.

PROTECTED. Rain-water conductors and downspouts installed along alleyways, driveways, or other locations where they may be exposed to damage shall be protected by metal guards, or recessed into the wall.

STORM AND SANITARY DRAINAGE. The sanitary and storm drainage systems within a building shall be separate systems.

FLOOR DRAIN CONNECTIONS PROHIBITED. Floor drains shall not be connected to a storm drain.

ROOF DRAIN HEAD(S)

MATERIAL. See Exhibit G: Table D.

DRAINS AND STRAINERS. All roof areas, except those draining to hanging gutters, shall be equipped with roof drains having strainers extending not less than four (4) inches above the surface of the roof immediately adjacent to the roof drain. Strainers shall have an available inlet area, above roof level, of not less than one and one-half (1-1/2) times the area of the conductor to which the drain is connected.

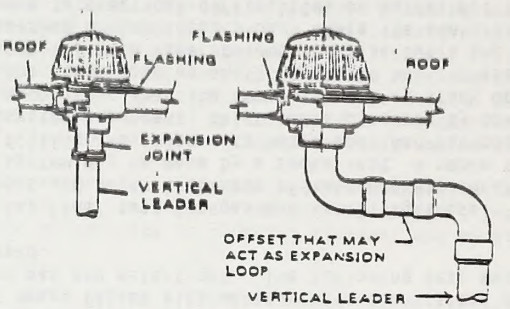
FLAT DECK DRAINS AND STRAINERS. Roof drain strainers for use on sun decks, parking decks and similar areas, normally serviced and maintained, may be of the flat surface type, level with the deck and shall have an available inlet area not less than one and one-half (1-1/2) times the area of the conductor or downspout to which the drain is connected.

FLOOR DRAIN FLASHINGS. The connection between roof and roof drains which pass through the roof and into the interior of a building shall be made water-tight by the use of flashing material not less than four (4) pound sheet lead extended not less than eighteen (18) inches in all directions from the center of the roof drain(s).

SIZE OF CONDUCTORS AND DOWNSPOUTS

VERTICAL CONDUCTORS AND DOWNSPOUTS. Vertical conductors and downspouts shall be sized on the maximum projected roof area according to Table A. For safety purposes, parapet enclosed roof areas shall have at least two (2) roof drains.

Section 890.Illustration A Expansion



Section 890.APPENDIX B Suggested Regulations for Permits, Inspections, Tests, Maintenance and Administration for Use by Local Governmental Units Conducting a Plumbing Inspection Program

INSPECTIONS

REQUIRED. A plumbing system or any part thereof shall not be enclosed, covered up or used until after such system has been inspected and approved by the administrative authority. It is the responsibility of the holder of the plumbing permit to arrange for such inspection with the administrative authority at least 24 hours before such inspection is to be made. Tests shall be made by the permit holder and observed by the administrative authority. Plumbing found not to be in compliance with the Plumbing Code or otherwise defective or unsafe shall not be approved. The use of a plumbing system not complying with the provisions of the Plumbing Code or found to be defective or unsafe shall not be approved until such time as such plumbing system is brought into compliance with the Plumbing Code.

ROUGHED-IN INSPECTION. Plumbing work shall not be closed-in, concealed or covered until after it has been inspected and approved by the administrative authority. Roughed-in inspections shall be made when the plumbing is roughed-in and before fixtures are set.

FINAL INSPECTION. Upon completion of the plumbing work and before final approval is given, the administrative authority shall inspect the plumbing and observe the final tests of the plumbing system to insure compliance with the requirements of the Plumbing Code.

REINSPECTION. A reinspection is mandatory whenever a plumbing system is found

not in compliance with the Plumbing Code. It is the responsibility of the plumbing permit holder to arrange for reinspection of the plumbing system by the administrative authority. Request for reinspection shall be made at least 24 hours before such inspection is to be made.

TESTING OF PLUMBING SYSTEM

NEW, ALTERED, EXTENDED OR REPAIRED PLUMBING SYSTEMS. New plumbing systems or systems which have been altered, extended or repaired shall be tested as prescribed hereinafter to disclose leaks and defects, except that testing may be waived in the following cases:

(1) in any case which does not include addition to, replacement, alteration, or relocation of any water supply, drainage or vent piping, and

(2) in any case where plumbing equipment may be set up temporarily for exhibition purposes.

DEFECTIVE PLUMBING. Where there is reason to believe that the plumbing system is defective, it shall be subjected to tests, inspected, and any defects found shall be corrected.

EXPOSURE OF WORK. All new, altered, extended, replaced or repaired plumbing shall be left uncovered and unconcealed until after it has been tested and approved. When plumbing work has been covered or concealed prior to being tested and approved, it shall be exposed for testing. It is the responsibility of the permit holder to expose plumbing for inspection purposes.

EQUIPMENT, MATERIAL AND LABOR FOR TESTS. All equipment, material and labor required for testing plumbing system or any part thereof is the responsibility of the permit holder.

TESTING METHODS

DRAINAGE AND VENT SYSTEMS

(1) ROUGHED-IN PLUMBING. Except for outside conductors and downspouts and perforated or open-jointed drain tile, the piping or plumbing drainage and venting systems shall be tested upon completion of the roughed-in piping installation by water or air and proved watertight. The administrative authority may require the removal of any cleanout plugs to ascertain if the pressure has reached all parts of the system.

(a) Water tests. The water tests shall be applied to the drainage system either in its entirety or in sections after

piping has been roughed-in. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system filled with water to point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest opening of the section being tested, each section shallb e filled with water, but a section shall not be tested with less than a ten (10) foot head of water. In testing successive sections, at least the upper ten (10) feet of the next preceeding section shall be tested, so that a joint or pipe in the building (except the uppermost ten (10) feet of the system) shall not have been submitted to a test of less than a ten (10) foot head of water. The water shall be kept in the system or in the portion being tested for at least fifteen (15) minutes before inspection starts; the system shall be tight at all points.

(b) Air Tests. The air test shall be made by attaching an air compressor testing apparaturs to any suitable opening and after closing all other inlets and outlets to the system, forcing air into the system until there is a uniform gauge pressure of five (5) pounds per square inch (psi) or sufficient to balance a column of mercury ten (10) inches in height. This pressure shall be held without introduction of additional air for a period of at least fifteen (15) minutes.

(2) FINISHED PLUMBING. After the plumbing fixtures have been set and their traps filled with water, their connections shall be tested and proved gas and watertight. The following test method shall be employed.

(a) Final test for gas and water tightness. The final test for gas and water tightness of the completed drainage and vent system may be made by a smoke test. A smoke test is made by filling all traps with water and then introducting into the system a pungent, thick smoke produced by one or more smoke machines. When the smoke appears at stack openings on the roof, the stack opening shall be closed and a pressure equivalent to a one (1) inch water column shall be built and maintained for the period of the inspection. Where the administrative authority, due to practical difficulties or hardships, find that a smoke test cannot be performed, a peppermint test may be substituted. A peppermint test is conducted by the introduction of two (2) ounces of oil or peppermint into the roof terminal of every line or stack to be tested. Immediately after the oil of peppermint is introduced into the system, ten (10) quarts of one-hundred sixty degreen Fahrenheit (160° F.) or hotter water shall be added, and each terminal sealed. The detection of the odor of

peppermint at any trap or at any other point in the plumbing system denotes a leak. Oil of peppermint, or persons whose body or clothes have come in contact with oil or peppermint, shall be excluded from the test area.

BUILDING SEWER. The building sewer shall be tested by insertion of a test plug at the point of connection with the public sewer. The building sewer shall be filled with water under a head of not less than ten (10) feet. The water level at the top of the test head of water shall not drop for at least fifteen (15) minutes.

WATER SUPPLY SYSTEM. Upon completion of a section, or the entire water supply system, the system shall be tested and proved tight under a water pressure not less than one and one-half (1-1/2) times the working pressure but not les than 100 psi, by air or water. When exceeding 100 psi, the test shall be of the hydrostatic type only. Testing pressure shall be maintained for fifteen (15) minutes. The water used for this test shall be from a potable water supply.

MAINTENANCE

GENERAL. All plumbing and drainage systems, both existing and new, and all parts thereof, shall be maintained in a functional, safe and sanitary condition. All devices or safeguards which are required by the Plumbing Code shall be maintained in good working order. The owner or his designated agent shall be responsible for the maintenance of the plumbing system.

ADMINISTRATION

PERMIT FOR PLUMBING WORK REQUIRED

(a) ISSUANCE OF PERMIT. No plumbing work shall be undertaken prior to the issuance of a permit by the administrative authority. Permits shall be issued only to a licensed plumber. A plumbing permit may be issued to the owner/occupant or lessee/occupant of a single family residence. Such person is authorized in accordance with the State of Illinois Plumbing License Law to install, alter, or repair the plumbing system of such single family residence, provided that such plumbing shall comply with all plumbing laws, rules and regulations and the Illinois State Plumbing Code shall be subject to such inspections as may be provided by the administrative authority and provided further that any such owner/occupant or lessee/occupant shall not employ any person other than an Illinois licensed plumber to assist him in such work.

APPLICATION FOR PERMIT. Application for a plumbing permit shall be made on forms provided by the administrative authority. The application shall be accompanied by fees in accordance with the schedule of fees adopted by the administrative authority.

PLANS AND SPECIFICATIONS. No plumbing permit shall be issued until after plans and specifications showing the proposed plumbing work have been submitted, reviewed and approved by the administrative authority. If a plumbing permit is denied, the applicant shall submit revised plans and specifications. When it is found necessary to make any change in the plumbing from the plans and specifications on which a permit has been issued, amended plans and specifications shall be submitted to the administrative authority for approval prior to making any change in the plumbing system.

MINOR REPAIRS. Minor repairs do not require changes in the piping to or from plumbing fixtures or involve the removal, replacement, installation or re-installation of any pipe or plumbing fixtures and no plumbing permit is required.

PROTECTION OF WATER SUPPLY SYSTEM. The administrative authority may adopt rules and regulations to protect the potable water system. Such rules and regulations should include, but are not necessarily limited to, the following types of installations: i.e., water treatment; heating; cooling; sprinklers, fire or lawn; swimming pools; ornamental fountains.

PERMIT FEES. No permit shall be valid until the fees prescribed by the administrative authority have been paid; nor shall an amendment to a permit be approved until the additional fees, if any have been paid to the administrative authority.

FAILURE TO OBTAIN PERMIT. Any person who installs any plumbing before obtaining a required plumbing permit from the administrative authority shall be subject to the penalties prescribed by the administrative authority.

ENFORCEMENT

INSPECTION AND TESTS. It is the responsibility of the administrative authority to enforce the provisions of any adopted ordinance, resolution, rules and regulations, or code regulating plumbing and plumbers.

RIGHT OF ENTRY. The authorized representative of the administrative authority shall, after proper identification, have the right, subject to constitutional limitations, to enter any premises for the purpose of enforcing any ordinance, resolution, rule or regulation, or code adopted to regulate plumbing and plumbers.

Section 890.APPENDIX C Enforcement

PLUMBING CODE

MINIMUM STANDARDS FOR PLUMBING. The Illinois State Plumbing Code contains the minimum standards for plumbing in the State of Illinois, except for a municipality having a population of 500,000 or more.

INSPECTIONS

COMPLIANCE WITH PLUMBING CODE. The administrative authority shall make routine plumbing inspections to ascertain compliance with the Plumbing Code and shall investigate complaints involving plumbing.

RIGHT OF ENTRY

EQUIPMENT, MATERIAL AND LABOR FOR TESTS

METHODS OF TESTING

VIOLATIONS

NOTICE OF VIOLATION. Violators of the Plumbing Code shall be informed of any violation at the time of inspection, followed by a formal notice in writing, including a deadline date for correction of the violation(s).

REINSPECTION Upon receipt of information from the violator indicating correction of violations or upon expiration of the established deadline date, a reinspection shall be made.

Section 890.APPENDIX D Alternate Designed Plumbing Systems

GENERAL

The plans and specifications for a plumbing system who design differs from the conventional type plumbing system, the aspects of which are described in this Code, must be submitted to the administrative authority for approval prior to installation of such a plumbing system. Such approval shall be in writing from the administrative authority.

Section 890.APPENDIX E U.S.P.H.S. List of Approved Coagulant Aids, Corrosive Control Chemicals, Treatment Chemicals, Liners, Grouts, Hoses, Tubings, Concrete Coatings/Admixtures, Sealants, Paints, and other Sundry Products

Coagulant Aids
Amerfloc 481, Drew Chem. Corp., 6/81
Amerfloc 482
Amerfloc 483
Floculite 551, DeBois Chem. Lab., 6/81
Percol Lt31, Allied Colloids, Inc. 7/81
Dearfloc 4341, Dearborn Chem. Co., 7/81
Tolfoc 333, Petrolite Corp., 9/81
Crossfloc CFN.01PWG, Crossfield Poly/Electrolytes 9/81
Crossfloc CFA.40PWG, Crossfield Poly/Electrolyes 9/81
Crossfloc CFA.50PWG, Crossfield Poly/Electrolyes 9/81

Crossfloc CFA.30PWG, Crossfield Poly/Electrolyes 9/81
Crossfloc CFA.20PWG, Crossfield Poly/Electrolyes 9/81
Crossfloc CFA.10PWG, Crossfield Poly/Electrolyes 9/81
Chitonsan Kypro Co., 9/81
Afton P/1040, Afton Chem. Co., 9/81
Afton P/1020, Afton Chem. Co., 9/81
Crocat P/600, Cordova Chem. Co., 10/81
Superfloc C579, American Cyanamid, 10/81
Superfloc C573, American Cyanamid, 10/81
Superfloc C517, American Cyanamid, 10/81
Superfloc C513, American Cyanamid, 10/81
Superfloc C515, American Cyanamid, 10/81
Superfloc C575, American Cyanamid, 10/81
CA-855P, Aqua Process, Inc., 10/81
CA-852P, Aqua Process, Inc., 10/81
WTI-4000-P, Water Technologies, Inc., 11/81
WTI-4002-P, Water Technologies, Inc., 11/81
WTI-4003-P, Water Technologies, Inc., 11/81
WTI-4010-P, Water Technologies, Inc., 11/81
WTI-4060-P, Water Technologies, Inc., 11/81
WTI-4101-P, Water Technologies, Inc., 11/81
Perchem 505.Pearl River Chem. Co., 11/81
Perchem 507.Pearl River Chem. Co., 11/81
Perchem 509.Pearl River Chem. Co., 11/81
Perchem 518.Pearl River Chem. Co., 11/81
Perchem 510.Pearl River Chem. Co., 11/81
Perchem 511.Pearl River Chem. Co., 11/81
CA-8250, Aqua Process Inc., 11/81
Mafloc 900, Mazer Chem., Inc., 11/81
Mafloc 826, Mazer Chem., Inc., 11/81
Percol LT-35, Allied Colloids, 2/82
WT-111, Water Chemists, Inc., 2/82
Wallfloc, Walling Chem. Co., 2/82
10-Chem. PF81, Culligan Corp., 2/82
Enforcer 1500, Hydro-Chem. Corp., 3/82
Enforcer 3000, Hydro-Chem. Corp., 3/82
Enforcer 6000, Hydro-Chem. Corp., 3/82
Hydrofloc C-150, Hydro-Chem. Corp., 3/82
Hydrofloc C-300, Hydro-Chem. Corp., 3/82
Hydrofloc C-600, Hydro-Chem. Corp., 3/82
Sanafloc C5567 P, San Joaquin Chem. Inc., 3/82
Sanafloc C5509 P, San Joaquin Chem. Inc., 3/82
Sanafloc C5569 P, San Joaquin Chem. Inc., 3/82
Sanafloc C5503 P, San Joaquin Chem. Inc., 3/82
Sanafloc C5505 P, San Joaquin Chem. Inc., 3/82
Sanafloc C5507 P, San Joaquin Chem. Inc., 3/82
Cyfloc 5200 P, American Cyanamid 3/82

Mafloc 2005, Mazer Chem., Co., 3/82
Cyfloc 4000P, American Cyanamid 3/82
Cyfloc 4310P, American Cyanamid 3/82
Cyfloc 4020P, American Cyanamid 3/82
Cyfloc 4010P, American Cyanamid 3/82
Arco 6320, Arco Performance Chem. Co., 3/82
Arco 6325, Arco Performance Chem. Co., 3/82
Arco 6330, Arco Performance Chem. Co., 3/82
Arco 6335, Arco Performance Chem. Co., 3/82
Arco 6340, Arco Performance Chem. Co., 3/82
Arco 6345, Arco Performance Chem. Co., 3/82
Arco 6360, Arco Performance Chem. Co., 3/82
Arco 6365, Arco Performance Chem. Co., 3/82
Nalco 7384 (Liquid), Nalco, 3/82
Aquafloc 497, Dearborn Chem. Co., 3/82
Agefloc WT-20, CPS Chem. Co., 3/82
Agefloc WT-40, CPS Chem. Co., 3/82
Fesco F409, F & S Supply Co., 3/82
Fesco F509, F & S Supply Co., 3/82
Clow Polymer BH-301, Clow Corp., 3/82
Bubond 65, Buckman Laboratories 4/82
Polymer 1192, Betz Labs, 5/82
SS-100 Axchem, Inc., 6/82
Mitan 9645, Mitco Water Labs, 6/82
Mitan 9729, Mitco Water Labs, 6/82
Mitan 9348, Mitco Water Labs, 6/82
Mitan 9719, Mitco Water Labs, 6/82
Mitan 9018, Mitco Water Labs, 6/82
Mitan 9109, Mitco Water Labs, 6/82
Mitan 9329, Mitco Water Labs, 6/82
Mitan 9505, Mitco Water Labs, 6/82
Mitan 9909, Mitco Water Labs, 6/82
Mitan 9919, Mitco Water Labs, 6/82
Hercofloc 870, Hercules, Inc., 6/82
Hercofloc 879, Hercules, Inc., 6/82
Max-floc 300, Tre-Con, Inc., 7/82
Max-floc 370, Tre-Con, Inc., 7/82
Max-floc 376, Tre-Con, Inc., 7/82
Max-floc 350, Tre-Con, Inc., 7/82
Max-floc F326, Tre-Con, Inc., 7/82
Max-floc F356, Tre-Con, Inc., 7/82
Jayfloc 832, Exxon Chem., Corp., 8/82
Jayfloc 835, Exxon Chem., Corp., 8/82
Jayfloc 838, Exxon Chem., Corp., 8/82
Jayfloc 842, Exxon Chem., Corp., 8/82
Jayfloc 846, Exxon Chem., Corp., 8/82
Jayfloc 824, Exxon Chem., Corp., 8/82

Corrosion Control Chemical
EL 2438, Calgon Corp., 6/81
DAB-Coat 2438, DABCO Chemical, 6/81
Hexaphos, Industrial Chemical, 7/81
Nalco 918 Ball, Nalco Chemical Co., 7/81
Nalco 7399, Nalco Chemical Co., 7/81
Nalco 918 Pulv, Nalco Chemical Co., 7/81
Nalco 519, Nalco Chemical Co., 7/81
Nalco 936 Ball, Nalco Chemical Co., 7/81
Nalco 7398, Nalco Chemical Co., 7/81
Calgon Unadjusted Glass, Calgon Corp., 7/81
Calgon C/10, Calgon Corp., 7/81
Flocon 100, Pfizer, Inc., 8/81
Rustoscale AW 937, Acme Chemical, 9/81
Calgon M-4661, Calgon Corp., 9/81
TDW 9501, Petrolite Corp., 9/81
TDW 9500, Petrolite Corp., 9/81
Cyanamer P-35, American Cyanamid, 9/81
Cyanamer P-70, American Cyanamid, 9/81
Aquacide 17A, Chem. Sciences, Inc., 10/81
LS-10, Calgon Corp., 11/81
EL-200, Calgon Corp., 11/81
IWT-898, Nalco Chemical 11/81
Calgon Adjusted RS-1, Calgon Corp., 11/81
Tri Sodium Phosphate, Olin, 11/81
Sodium Tri Poly Phosphate (Anhydrous), Olin, 11/81
Sodium Tri Poly Phosphate (Hexahydrate), Olin, 11/81
Sodium Hexa Meta Phosphate (Polyphos), Olin, 11/81
EL 4420, Calgon Corp., 1/82
Aqua Feed 200, Chem. Sciences, Inc., 2/82
TSPP, FMS Corp., 2/82
STPP, FMC Corp., 2/82
CL-707A, Calgon Corp., 3/82
EL-2438L, Calgon Corp., 3/82
EL-2483Q, Calgon Corp., 3/82
RS-2, Calgon Corp., 3/82
Nalco 7397, Nalco, 3/82
7015P, Arco Performance Chemical Co., 5/82
8200P, Arco Performance Chemical Co., 5/82
1A, Bell Chemical Co., 5/82
Hydrapol 100-1, Hydranautics Water Systems, 6/82
P-324, Culligan, 7/82
P-33, Culligan, 7/82
Stiles-Kem 7101, Met-Pro Corp., 7/82
Stiles-Kem 7102, Met-Pro Corp., 7/82
Stiles-Kem 7103, Met-Pro Corp., 7/82
Stiles-Kem 7512, Met-Pro Corp., 7/82

Stiles-Kem 8512, Met-Pro Corp., 7/82
Stiles-Kem 9512, Met-Pro Corp., 7/82
Stiles-Kem 7522, Met-Pro Corp., 7/82
Stiles-Kem 8522, Met-Pro Corp., 7/82
Stiles-Kem 9522, Met-Pro Corp., 7/82
Stiles-Kem 7532, Met-Pro Corp., 7/82
Stiles-Kem 8532, Met-Pro Corp., 7/82
Stiles-Kem 7542, Met-Pro Corp., 7/82
Stiles-Kem 8542, Met-Pro Corp., 7/82
Stiles-Kem 9542, Met-Pro Corp., 7/82
Stiles-Kem 7511, Met-Pro Corp., 7/82
Stiles-Kem 7521, Met-Pro Corp., 7/82
Stiles-Kem 7531, Met-Pro Corp., 7/82
Stiles-Kem 7541, Met-Pro Corp., 7/82
Stiles-Kem 7611, Met-Pro Corp., 7/82
Stiles-Kem 7621, Met-Pro Corp., 7/82
Stiles-Kem 7631, Met-Pro Corp., 7/82
Stiles-Kem 7641, Met-Pro Corp., 7/82
Stiles-Kem 9532, Met-Pro Corp., 7/82

Treatment Chemicals
Calcium Hypochlorite (HTH), Olin Corp. 2/82
Alum (AL(SO)), Olin Corp., 2/82
Sodium Silicofluoride, Olin Corp., 2/82
Sodium Fluoride (NAF), Olin Corp., 2/82
Caustic Soda (NaOH), Olin Corp., 2/82
Chlorine, Olin 3/82
Polyaluminum Chloride, Delta Chemical Company, 3/82
Sodium Chlorite, Olin Corp., 4/82
Sodium Aluminate, Para/Chem Southern, 5/82

Liners, Grouts, Hoses and Tubing
Aqua-Sav Butyl Coating, Hodgman Rubber Co., 3/68
Ballasite #5953, 8/63
Bonanza Brand Rubber Hose Couplings, American Rubber Mfg. Co., 4/63
Bondstrand, Amercoat Corp., 4/65
Butyl B-44 Rubber Compound (of III Ethylene Propylene Diene Monomer), 3/65
Butyl Rubber Membrane (cf III Ethylene Proylene Diene Monomer), Carlise Corp, 9/62
C & M Rubber System, Sherman-Williams Co., 9/69
Conservo Water Hose, Hewitt Robins, Inc. 8/69
Ethylene Propylene Diene Monomer, Firestone Tire & Rubber Co., 8/68
Filon Plastic-Cement-Asbestos Board, Filon Plastics Corp., 2/60
Grouting Compound CR-202, 3M Co., 11/81
GACO N-3 S, Gates Engineering, 4/65
GACO UMW-28 (cf III, GACO N-3 S), Gates Engineering, 12-71
GACO UMW-29-T (cf III, GACO N-3 S), Gates Engineering, 9-71
Goodyear Butyl Sheeting Formula NBZIMI58, Goodyear Tire and Rubber Co., 5/65

Hydro-Ban Sheet Lining System, Coro-Ban Products Co., 4-65
Hydrocel, Jacuzzi Bros., Inc. 9/69
Hydro-Lox Sheet Lining System, Coro-Ban Products Co., 4-65
Hydron 300, Sampson Chemical Corp., 5-72
Hypalon Sheeting, Plymouth Rubber Co.

Sealants
Kent-Seal No. 2 Joint Sealant, Hamilton Kent Manufacturing Co., 6/81
LASR-XR-59 (RUBBER HOSE), Los Angeles Rubber Co., 10/69
Liquid Membrane 6125, Uniroyal Waterproofing System, 12-73
Microthene, U.S. Industrial Chemical Co., 3/65
Neoprene Rubber Reservoir Liner (cf III Rubbercraft Corp. Plastic Tubing), Gates Engineering, 4/65
Paraqual, Aldan Rubber Co., 3/72
Plastic Laminates - Convair Water Tank Materials (Cured Expoxy - Polyamine Residen System) 8/60
Polyethylene (cf III, Tuftube), Consolidated Pipe Co. of American, 2/53
Reeves S-18109 Hypalon Line, Reeves Bros., Inc. 6/74
Reeves S-18128 Floating Roof Liner, Reeves Bros., Inc. 6/74
Rooffloat (EPDM) - (cf III, Ethylene Propylene Diene Monomer), Globe Lining, Inc., 10/69
Sealing Gel CR 250 (Dye Free), 3M Co., 4/81
Semco Silicone, Semco Silicone Engineering & Mfg. Co., 5/63
Silcastic #140, Dow Corning, 12/61
Sure-Seal Rubber Membrande (cf III, Ethylene Propylene Diene Monomer), Calisle Corp., 8/68
Tufcote Supreme, Reynolds Coating Corp., 4/67
Tuftube, Dan.de Products Corp., 8/66
Vinyl Compound JR-810, Polymer Cpr., 12/61
Vinylon, 1/58
White Neoprene #S967, Elkhart Rubber Works, 2/62
Polyethylene Sheeting, Sarnafil, Inc., 2/82
Polyethylene Sheeting (Black), Sarnafil, Inc., 2/82
Chevron Industrial, Chevron Oil Co., 6/82
Aypalon Membrande, J.P. Stevens & Co., 6/82
Gundline HD, Gundle Lining Syst. Inc., 8/82
Gundline HDA, Gundle Lining Syst. Inc., 8/82

Concrete Coatings-Admixtures
Acryl 60, Standard Drywall Products Inc., 2/74
Acryl-Set, Set Products, Inc., 9/81
Five Star Water Proofing, U.S. Waterproofing, Inc., 6/80
Handi/Gard Concrete, Gibson-Homans, Co., 9/81
Krystol T 1, Kryton Corporation, 11/81
Krystol T 2, Kryton Corporation, 11/81
Melment L 10A Liquid, American Admixtures and Chemicals Corporation, 12/81
Melment F 10 Powder, American Admixtures and Chemicals Corporation, 12/81
Mirocote Cementitious Multipurpose Coating, Miraco, Inc., 2/81
Pre-Krete-Formula G-8, Pocono Fabricators, 4/79

Plascon 300, Gregg Co., 7/81
Versa-Kote 3WB, Bywater Coatings, 6/81
Water Plug, Standard Drywall Products, Inc., 4/75
WRDA-19, W.R. Grace & Co., 11/81
XYPEX, Xypex Chemical (Canada) Ltd., 9/73
Plascon 3300, The Gregg Co., 7/81
Acryl-Set, Set Products, Inc., 9/81
Melment F 10 Powder, American Admixtures and Chemicals Corporation, 4/82
Melment L10A Liquid, American Admixutures and Chemicals Corporation, 4/82
Sludge Bond, Futura Adhesive & Chemical Co., 6/81

Sealants
Kent Seal No. 2, Hamilton Kent Manufacturing Company, Inc., 6/81
Handi/Guard Concrete Sealer, Gibson-Homans, Co., 9/81
CR/202, (Sealing Gel) 3M Company, 11/81
CRQ/250, (Sealing Gel) 3M Company, 3/82
Crystal Seal, Cassell Coatings Co., 7/82
Concresive AEY/1419, Adhesive Engineering Co., 8/82
Concresive 1380, Adhesive Engineering Co., 8/82

Paints-Coatings and Other Sundry Products
ABACO Formula #510, American Bitumuls & Ashphalt Co., 11/63
Amercoat #66, Amercoat Corp., 11/63
Amercoat #78, Amercoat Corp., 4/68
Amercoat #79, Amercoat Corp., 4/68
Aquapon Gray UC-9652, Pittsburg Plate Glass Co., 5/65
Aquapon Sinc Rich Primer, Pittsburg Plate Glass Co., 5/65
Aquatapoxy, American Chemical Corp., 1/80
Armour Weld L/P Overlay Adhesive, 2/65
ATCO 1825, American Tar Company, 10/80
Ballastite #7386, 2/65
Ballast Tank Coating 7340, Farboil Co., 4/65
Barrier, Dakota Coatings, Co., 7/67
Blezona Molecular Super Metal, 10/75
Bitumastic 70/B Enamel, Koppers Corp., 2/73
Bitumastic 100, Koppers, Co., Inc. 3/65
Bitumastic Super Tank Solution, Koppers Corp. 12-74
Burke Potable Water Lining, Burke Rubber Co., 8/71
Calgosil, Calgon Corp., 8/75
Carboline 187 Protective Coating, Carboline Co., 8/71
Carboline Carbozinc #11, Carboline Co., 4/62
Carboline Epoxy, 190, Carboline Co., 4/62
Cementkote White #722-01, Tropical Paint Co., 7/58
Ciba Giegy GY/305-Hy-830-Ciba-Giegy-Corp., 8/81
Coal Cat UC-8695, Pittsburg Plate Glass Co., 3/65
Coal Tar-Epoxy Coating System (UC-12367, Spec-C-200 Black), Pittsburg Plate Glass Co., 4/65
Colma-Dur Gel, Sika Chemical Corp., 12/70
Colma-Kote M-Sika Chemical Corp., 12-70

Cook 920B-926 Coal Tar Epoxy, Cooks Pain and Varnish Company, 2/80
Delta Plastics Potable Tank Liner #PC 40-903 A & B Series, Delta Plastics Co., 7/72
Demicon, Castle Chemical Corp., 1/72
Dixon Coating System (Dixon #201 T.I. Chromate Graphite Primer, Dixon #104 T.I. and Dixon #107 T.I.), Dixon Crusible Co., 7/56
Duralkote 302, 304, 312 Epoxy Coating, Duralkote International Corp., 8/75
Engard 460 Chemical Resistant Epoxy Coating, Engard Coatings, Co., 4/68
Engard 800, Engard Coatings Corp., 4/79
Engard 820, Super T & O Tank Coating, Engard Coatings Corp., 7/81
Epocast 31A, Weber Aircraft Corp., 4/65
Epoxy Coating 3836-R-10, Cook Paint and Varnish Co., 2/61
Epoxylite #203, Epoxylite Corp., 12/58
Epoxylite #213, Epoxylite Corp., 4-65
Epoxylite 932A & B, Epoxylite Corp., 2-67
Epoxylite EC/964, Epoxylite Corp., 4065
Epoxylite EC/965, Epoxylite Corp., 4065
Epoxyn Enamel (Use of xylene, methyl ethyl keotone, and isopropyl alcohol as thinners)/Colebrant Ltd. Epoxy Pool Coat, International Corp., 11/58
Epoxy Surfaces, Inc. Tank Coating, 8/73
Epoxy White Primer No., 6548, Keeler & Long, Inc., 5/81
Eureka Fluid Film-Grade WT, Eureka Chemical Co., 12/61
Farbo-Coat #64, Farboil Co., 4/65
Farbo-Coat #373, Farboil Co., 4/65
Farbo-Coat #50 PR, Farboil Co., 4/65
Filter Sealants RL-089, RL-100, Tremco Co., Inc., 11/80
Flintkote #265 (cf I, Sealcoat #81566), Flintkote, 2/68
Flintkote #265A (cf Sealcoat #81566), Flintkote, 2/68
Flintkote C-13-E-Emulsion, Flintkote Co., 7/69
Formula C-200, Corp. of Engineers, 3/65
Gel Coat, Reichold Chemical Co., & Ferro Corp., 8/66
Gilsonite Asphalt Coating #827, Detroit Graphite Co., 11/63
Giltex #180, Genessee Laboratory, Inc., 1/64
Giltex, #180M, Genessee Laboratory, Inc., 1/64
Glid-Guard 5250/5242, Epoxy Glidden SMC, 1/79
Goodyear Rubber Co., #D-1660 F5, 5/67
Grout AM-9-American Cyanamid, 1/66
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H^2Out II, Hyde Park Chemical, 12/78
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Horsey-Set, Moore-McCormack Co., 1/59
Hydrepoxy 156, Acme Chemicals & Insulation Co., 9/74
Hydrepoxy 300, Acme Chemicals & Insulation Co., 8/74
Hydro-Pox (Series 20: Hydro-Pox Primer 20-1211 and Hydro-Pox Finish Coat 20-1235, Tnemec Company, Inc., 2/76
Hypalon, Burke Rubber Co., Inc., 5/72

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IGAS, Sika Chemical Corp., 1/70
Internal Epoxy, Formula 920-R-128, Cook Paint Co., 4/75
Inertol No. 49, Thick, Koppers Co., 2/79
Inertol Primer 621-FDA, Koppers Co., 2/79
Inertol Resin Alumin 5504, Koppers Co., 4/62
Inertol Vinyl Resin 837A, Red, Koppers Co., 10/74
Inertol Vinyl Resin 837A, Gray, Koppers Co., 10/74
Inertol Vinyl Resin 837A, White, Koppers Co., 10/74
Inertol Vinyl Intermediate 849, Gray, Koppers Co., 10/74
Inertol Vinyl Intermediate 849, White, Koppers Co., 10/74
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Intergard Solvent Free Blue 4421, International Paint Co., 4/64
Intergard Solvent Free Reactor 4423, International Paint Co., 4/64
Intergard Solvent Free White 4424, International Paint Co., 4/64
Jennite J-16, Maintenance, Inc., 1-61
Jennite J-16-R, 1/61
Kata-Pontex Enamel, Inertol Company, Inc. 1/64
Kolmetal, Emjay Maintenance Engineers, 2/60
Kolor-Poxy White Primer No. 3200, Keller & Long, Inc., 5/81
Koppers 200 Epoxy, Koppers Co, 12/74
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Koppers 294 HB Epoxy, Koppers Co., 8/75
Koppers Glamorglaze 200, Koppers Co., 8/75
Koppers 40 Passivator, Koppers Co., 10-74
Liner for Reservoir (3110 Elasticized Polyolefin Sheet), 8/75, Dupont
LD-2889, Modified Polyolefin, 7/71
Lexan, General Electric Co., 11-63
Mammut, A. Gusmer and Company, Inc., 6/66
Meadow Mat. W.R. Meadow, Inc., 11/63
Maraset Tank Lining System 7-309, Acme Chemicals and Insulation Co., 7/75
Merlon, Mobay Chemical Co., 11/63
Metalhide 100 UC-8864 Primer, Pittsburgh Plate Glass Co., 5/65
Metalife Coating Systems, Metafile International 9/71
Mobil 80-R-8 Vinyl Primer, Mobil Chemical Co., 7/72
Mobil 93-F-17 Hi Build Vinyl Dove Gray (Food Grade), Mobil Chemical Co., 7/72
Mobil 94-A-1 Vinyl Aluminum, Mobil Chemical Co., 7/72
Mobil 94-W-9 Vinyl Enamel White (Food Grade), Mobil Chemical Co., 7/72
Niklepoxy Injection Resin Project #3, Rocky Mountain Chem. Co., 3/80
Niklepoxy Injection Resident Product #3, Rocky Mountain Chem. Co., 3/80
Niklepoxy Cement Product #4 Rocky Mountain Chem. Co., 3/80
Niklepoxy Cement All Purpose Coating Product #15, Rocky Mountain, Chem. Co., 3/80
Nocoro Epoxy System - M-7t154S, M-4801, M-4802, Industrial Paint, Reichold Chemicals, Inc., 8/75
No-Ox-ID "A Special", Dearborn Chemical Co., 12/60

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Nu-Type Drion #42 (For exterior of pipes only). Gregg Co., Inc. 12/74
Orange Phenolic Primer #6261, Humble Oil Co., 1/64
Osmose K-33, Osmose, 5/74
Palmer 7078, Epoxy, Coating, Palmer Products, Inc., 10/59
Paraffin (Food Grade), 10/71
Penn-Chem Epoxy Tank Liner 54 Series, Pennsbury Coatings, Corp., 7/72
Pennsbury WTS-14 Four-Coat Vinyl System, 11/72
Pennsbury 3-Coat Fluorinated Rubber System, 3/76
Pennsbury Penn-Steel Epoxy Seam Sealer, 3/76
Pennsbury Pennoxy II, Pennsbury Coatings Corp., 3/76
Petropoxy, Inertol Co., 3/65
Phenolic Resin, 12/61
Pitt Chem Amide Cured Coal Tar Epoxy Coating, Pittsburg Chemical Co., 3/65
Pitt Chem Coal Tar Urethane Coating, 3/65
Pitt Chem Coating Powder, 3/65
Plasite 7133-7133 Top Coat, Wisconsin Protective Coating Corp., 10/74
Plasite 1064 Baking Epoxy Phenolic, 10/74
Plasite 3066 Baking Phenolic, 10/74
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Polycarbonate, 11/63
Porter 4836-4837 Epoxy, Porter Coatings, 8/79
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HSA-570-00, Prufcoat, Grow Chemical Coatings, Corp., 1/72
P.W.G., Chemical Grout, Halliburton Co., 9/68
RAM-Nek, K.T. Snyder Co., Inc. 9/71
Red Hand Pain Company Formula T-2908, 6/72
Reilly 122 Black Synthetic Primer, Reilly Tar Corp., 6/81
Reilly 230 Enamel, Reilly Tar Corp., 6/81
Resiweld Protective Coating #722, H.B. Fuller Co., 4/65
Rigortex No. 3305 System, Inertol, Inc., 1/64
Rigortex No. 3313 System/ Inertol, Inc., 1/64
Rigortex No. 3324 System, Inertol, Inc., 1/64
Rigortex 5502 Aluminum 320, Inertol, Inc., 5/52
Rock Tar (cf. Gilsonete Asphalt Crating #827) Detroit Graphite Co. 11/63
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Rust-Ban PH 6297, Enjay Chemical Co. (Humble), 1/64
Rust-Ban PH 6841, Enjay Chemical Co., 3/69
Rust-Ban PH 6842, Enjay Chemical Co., 3/69

Rust-Ban PH 7888, Enjay Chemical Co., 3/69
Rust-Ban PH 7889, Enjay Chemical Co., 3/69
Rust-Oleum Corp., Series 400, 2/61
427 Yellow Primer (intermediate lead-free), 2/61
490 White, 2/61
486 Navy Gray, 2/61
483 Silver Gray, 2/61
479 Black, 2/61
468 Red, 2/61
482 Aqua Green, 2/61
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Rust-Oleum Corp. Series 9500 High Build Epoxys, 12/81
9522 Sky Blue, 12/81
9571 Dunes Tan, 12/81
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Scotch-Kote Brand 203 Epoxy Coating, 3 M Co., 1/79
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Sealcoat #209 (cf Sealcoat #81566), Standard Oil of California, 9/66
Sealcoat #81566, Gregg Co., 2/66
Sealcoat #HVR59, Gregg Co., 8/66
Selectron 58059-A White Gel Coat, Pittsburgh Plate Glass Co., 1/65
Sherman Williams Coating F52 A AB, 2/60
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Sikagard 667, Hi-Bild Gray, Sika Chemical Corp., 6/74
Sinclair Coating L-1014-57, Sinclair Refining Co., 4/58
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Sinmast Mortar Mix Resin, Product #4, Sinmast of America, 10/75
Sinmast Reservoir Coating, Product #11, Sinmast of America, 10/75
Sinmast Expansion Joint, Product #100, Sinmast of America, 10/75
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Super tank Solution, Koppers Co., 12/74
Tank Coat Epoxy, Virden Permabilt Co., 12/80
Tarset C-200, Pittsburgh Chemical Co., 10/58
Texaco Rust Proof Compound "L", Texaco Inc., 9/74
Thoroseal, Standard Dry Wall Products, Inc., 6/65
Tnemec 46-465 High Build Tank Coating, Tnemec Co. Inc., 1/81
Tnemec 880 (primer), Tnemec Co., Inc, 2/74
Tnemec 881 (intermediate), Tnemec Co., Inc, 2/74
Tnemec 882 (finish), Tnemec Co., Inc, 2/74
Torex Heavy, Inertol Company, Inc., 1/64
Torex 800 Enamel, Koppers Co., Inc., 9/74

Torex 810 Heavy, Koppers Co., Inc., 9/74
Tuff-Tank 100, Green Mt. Research Corp., 1/79
Tuff-Tank 50 (tile red), Green Mt. Research Corp., 1/79
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Tyrolite, Crowder-Warner Corp., 7/59
U.S. Pipe Seal Coat, Standard Oil of California, 5/68
Urecal 807 and Control Coat 501, PVO International, 5/75
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Valdura #585, Martin Merietta Corp., 11/63
Versamid 140, General Mills, 3/64
Vinyl Aluminum Top Coat 60-A-1, Pennsbury Coatings Corp., 4/81
Vinyl Primer Red, International Paint Co., 1/69
Vinyl Resin Type Protective Coating, MW Paint and Protective Coatings - Gen./63, 2/61
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Vulkem, Master Mechanics Company, 12/74
Wet Surface Plastic Roof Cement (acceptable for limited use), Lloyd A. Fry Roofing Co., 9/74
Wise Chem E/212 (White), Wise Chemical Co., Inc. 4/71
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Engard 820, Engard Coatings Corp., 7/81
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Gy-305 HY-830, Ciba-Geigy, 8/81
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Rust-Oleum 9571 (Dunes Tan), Rustoleum Corp., 11/81
Rust-Oleum 9582 (Light Gray), Rustoleum Corp., 11/81
Rust-Oleum 9592 (White), Rustoleum Corp., 11/81
Interguard EXA 471/473 (White) +, International Paint, 1/82
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Deta/Bisphenol A-Epoxy, Ciba-Geigy Corp., 7/82
Hi Solids Epoxy Coating System Sherwin-Williams Co., 7/82
Epoxy Hardened Part B B60 V ALL, Sherwin-Williams Co.
Gil-Poxy Hi Build Coating System, The Gilman Co., 7/82
Metal Primer Terra Cotta Red 48-R-65
Catalyst 95-26
9084 Silver Grey, Rust-Oleum Corp., 7/82

9071 Dunes Tan, Rust-Oleum Corp., 7/82
9092 White, Rust-Oleum Corp., 7/82
9382 Light Grey, Rust-Oleum Corp., 7/82
9332 Aqua Green, Rust-Oleum Corp., 7/82
9391 Flat White, Rust-Oleum Corp., 7/82
9334 Green (Zinc-Seler) Rust-Oleum Corp., 7/82
9371 Dunes Tan, Rust-Oleum Corp., 7/82
9392 White, Rust-Oleum Corp., 7/82
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520-W-360 Leadfree Metal Primer
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20-A-275 Vinyl Primer
20-A-384 Vinyl Intermediate Coat
20-A-398 Vinyl Coating
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Dynabond, American Chemical Corp., 9/82

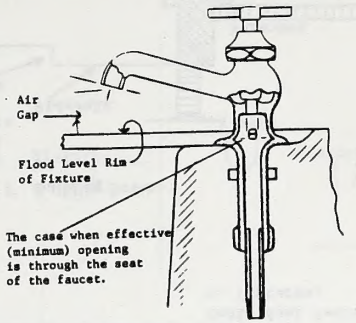
MISCELLANEOUS

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3-Amino Triazole, 6/57
Carbon Dioxide, 10/69
Chevron Duraplex Grease W1, Calif., S.O., 4/65
Citric Acid, 11/59
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Drilling Fluid Additive X-6, E.E. Johnson, Inc., 5/65
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Glass Fiber Reinforced Epoxy Resin Pipe, A.O. Smith-Inland Inc., 10/75
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Solarcaine Ice Tablets (Tem-Pletts), McKessen & Robbins, 7/63
Stain Tin 157 PA and Eutec-Silweld 1618 Solder, Eutectic Welding Aloys Corp., 9/12

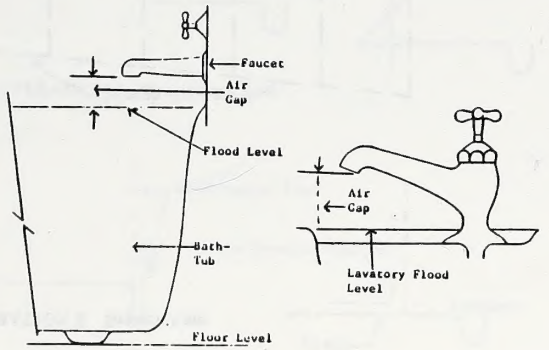
Ucas Foodfreeze-35, Union Carbide, 8/71
Urea, 2/60
Winterize, Marine Products Co., 11/70
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Section 890.EXHIBIT A Illustrations from Subpart A

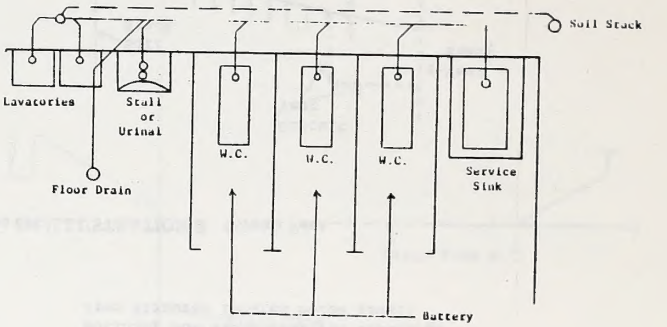
Section 890.ILLUSTRATION A Air Gap Drawing #1



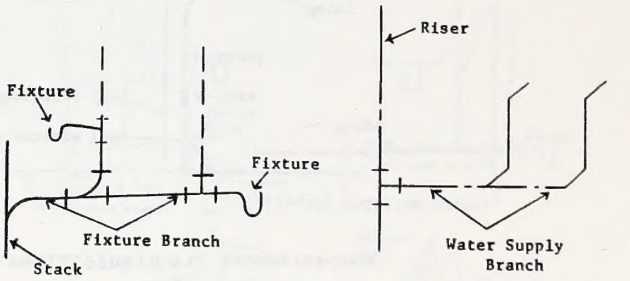
Section 890.ILLUSTRATION B Air Gap Drawing #2



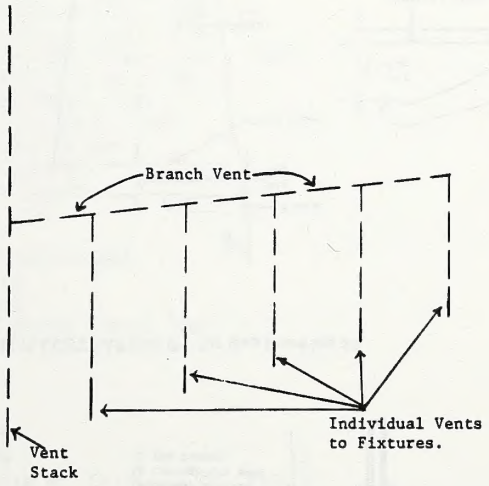
Section 890.ILLUSTRATION C Battery of Fixtures



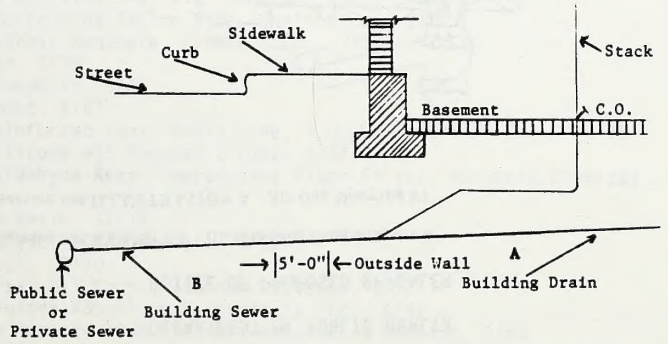
Section 890.ILLUSTRATION D Branch



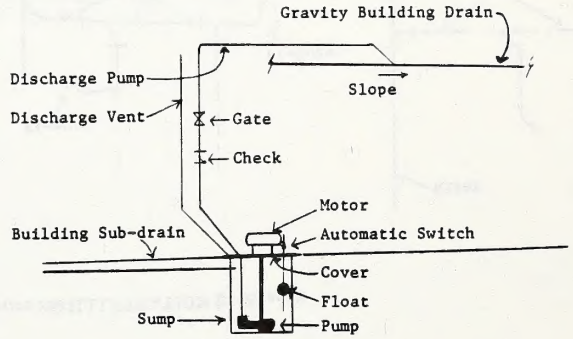
Section 890.ILLUSTRATION E Branch Vent



Section 890.ILLUSTRATION F Building Drain

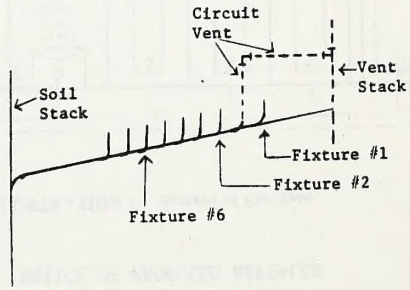


Section 890.ILLUSTRATION G Building Sub-drain

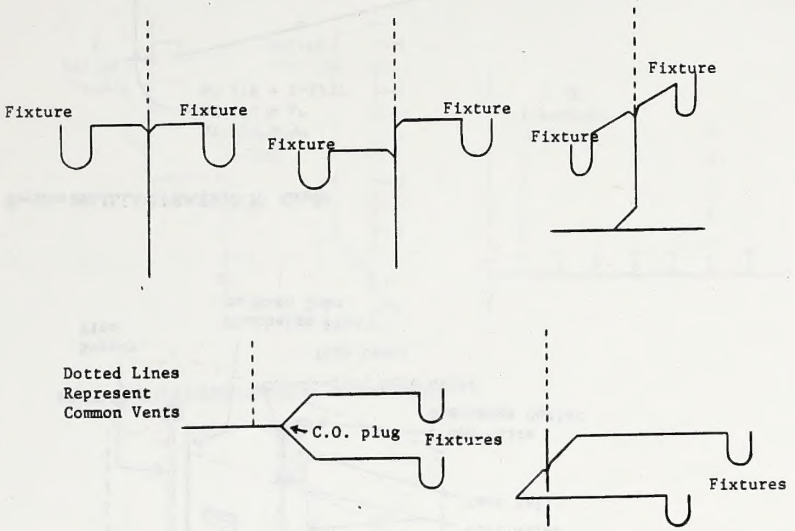


Building sub-drain receives discharge
from fixtures located below sewer.

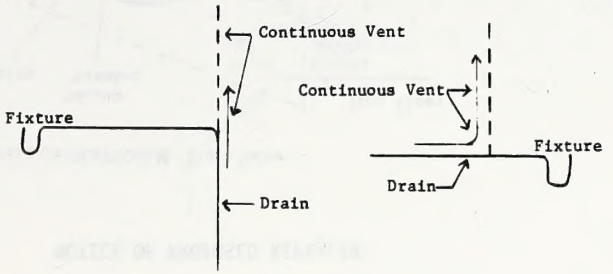
Section 890.ILLUSTRATION H Circuit Vent



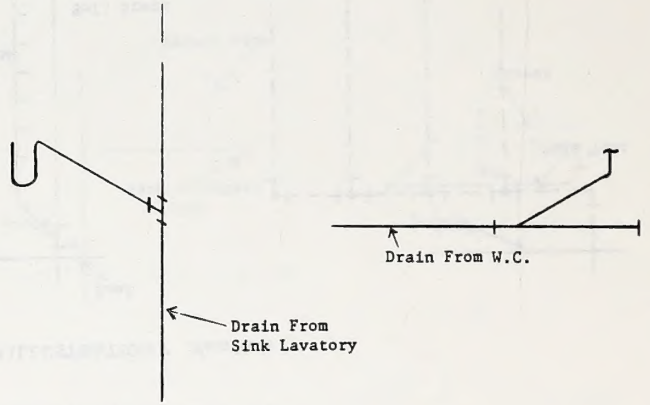
Section 890.ILLUSTRATION I Common Vent



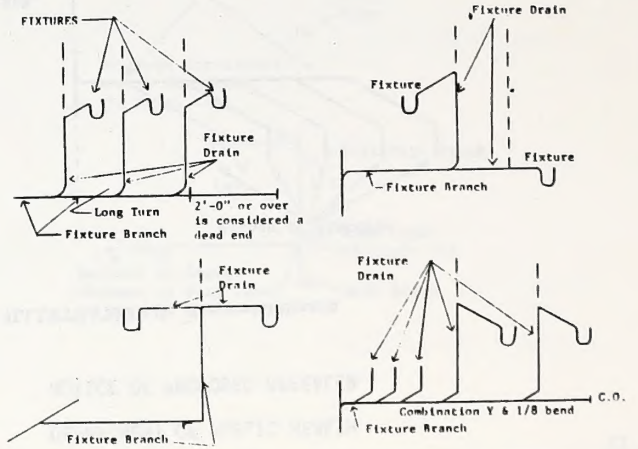
Section 890.ILLUSTRATION J Continuous Vent



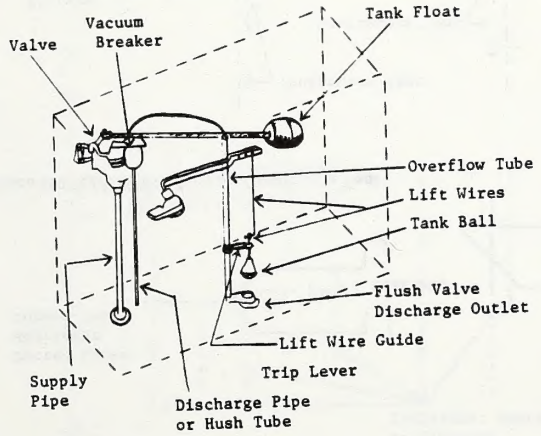
Section 890.ILLUSTRATION K Drain



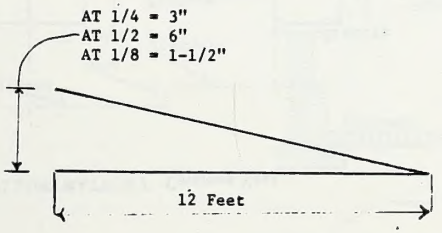
Section 890.ILLUSTRATION L Fixture Drain



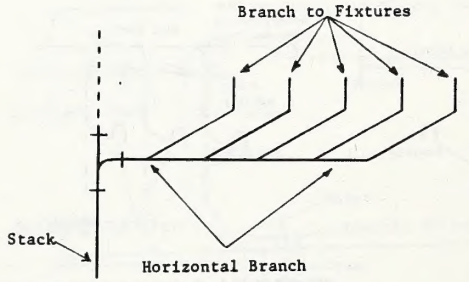
Section 890.ILLUSTRATION M Flush Valve



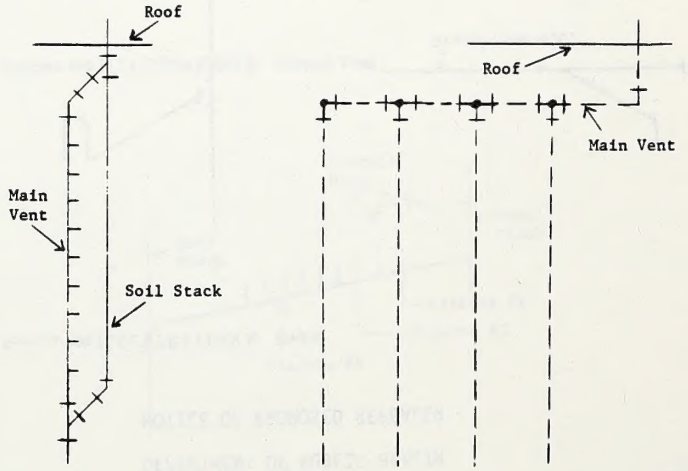
Section 890.ILLUSTRATION N Grade



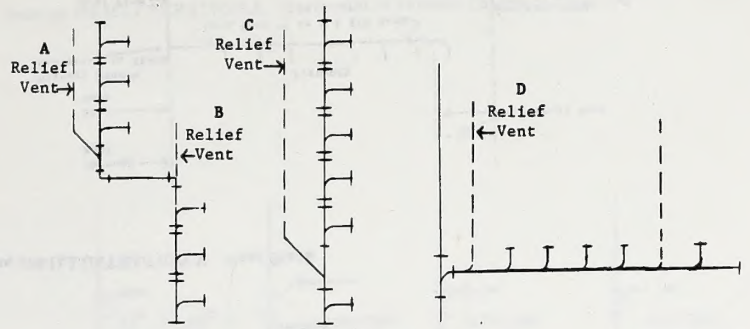
Section 890.ILLUSTRATION O Horizontal Branch



Section 890.ILLUSTRATION P Main Vent



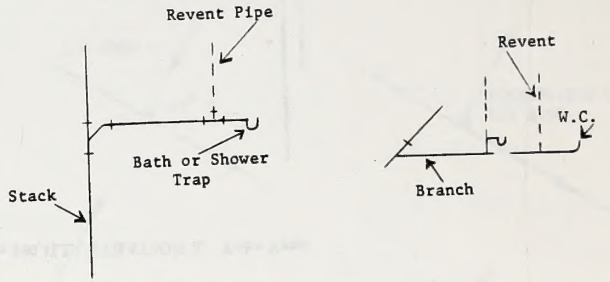
Section 890.ILLUSTRATION Q Relief Vent



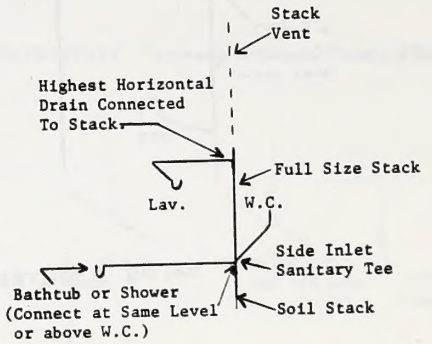
Section 890.ILLUSTRATION R Return Offset



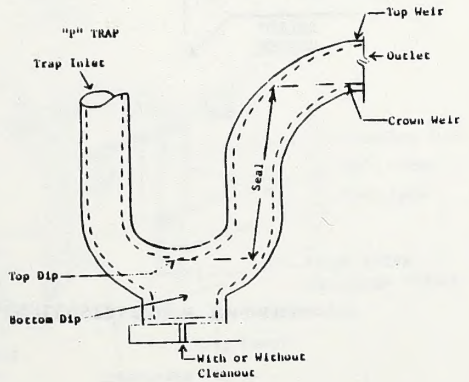
Section 890.ILLUSTRATION S Revent Pipe



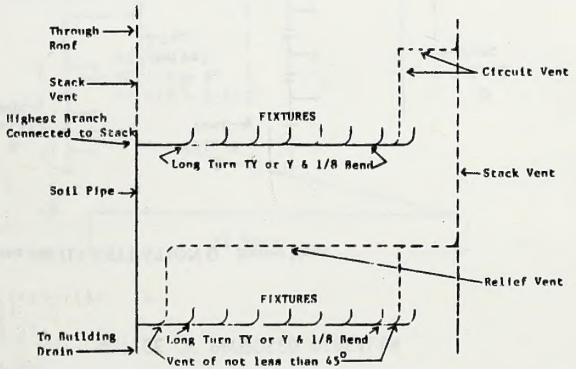
Section 890.ILLUSTRATION T Stack Vent



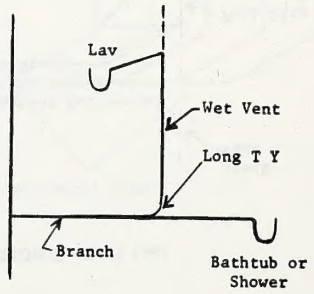
Section 890.ILLUSTRATION U Trap



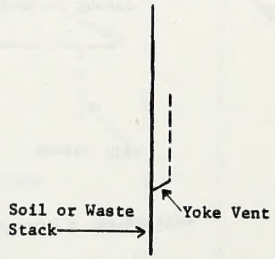
Section 890.ILLUSTRATION V Vent Stack



Section 890.ILLUSTRATION W Wet Vent

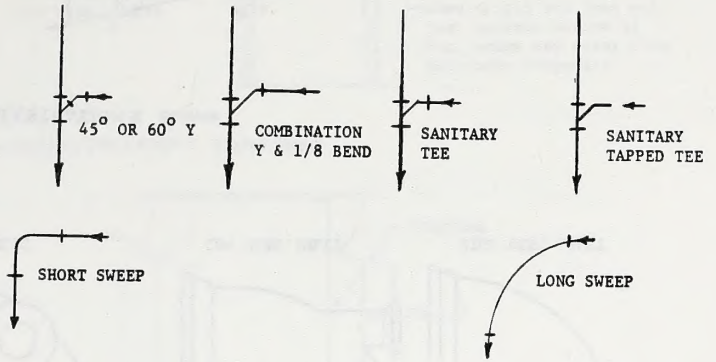


Section 890.ILLUSTRATION X Yoke Vent



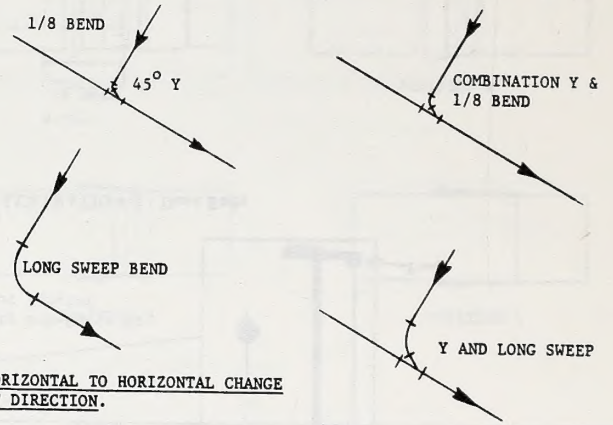
Section 890.EXHIBIT B Illustrations from Subparts B and D

Section 890.ILLUSTRATION A Horizontal to Vertical Change of Direction



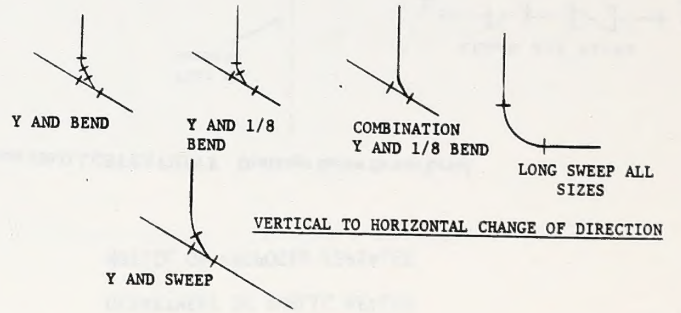
HORIZONTAL TO VERTICAL CHANGE OF DIRECTION

Section 890.ILLUSTRATION B Horizontal to Horizontal Change of Direction



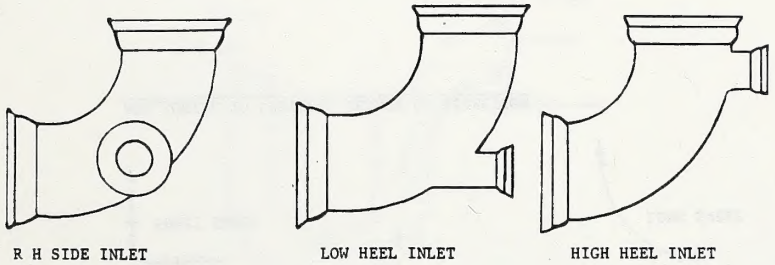
HORIZONTAL TO HORIZONTAL CHANGE OF DIRECTION.

Section 890.ILLUSTRATION C Vertical to Horizontal Change of Direction

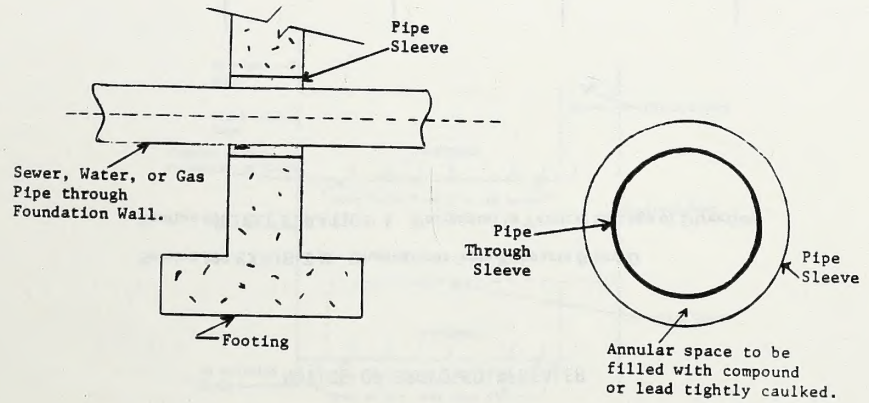


VERTICAL TO HORIZONTAL CHANGE OF DIRECTION

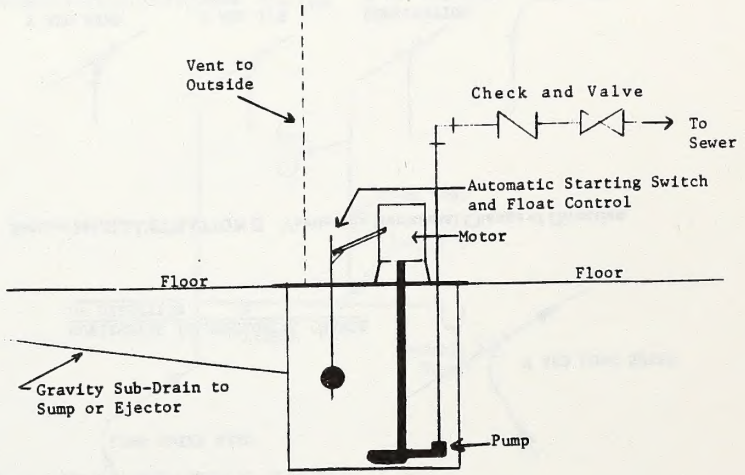
Section 890.ILLUSTRATION D Quarter Bends



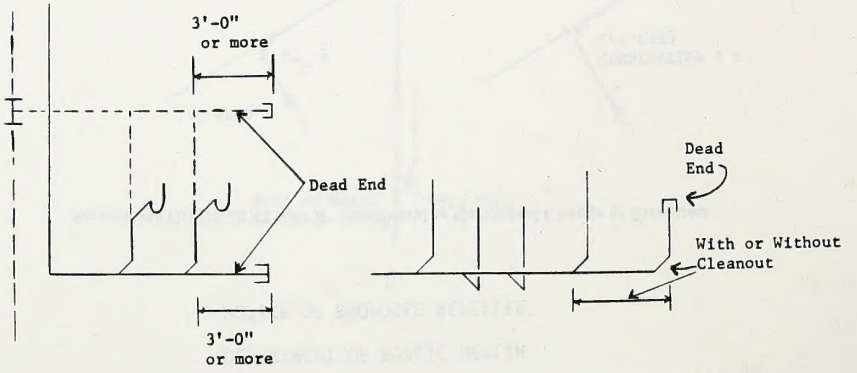
Section 890.ILLUSTRATION E Sleeves



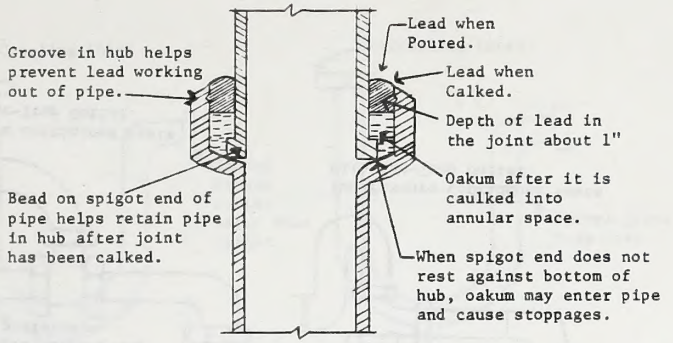
Section 890.ILLUSTRATION F Drainage Below Sewer Level



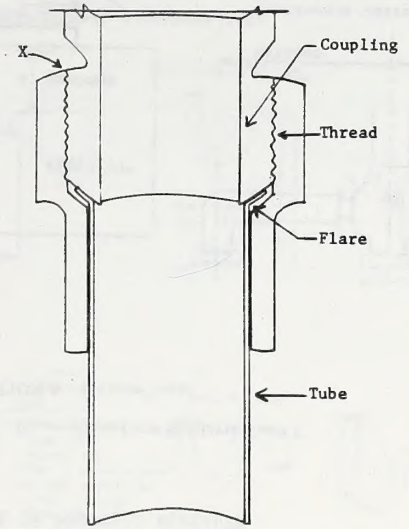
Section 890.ILLUSTRATION G Dead Ends



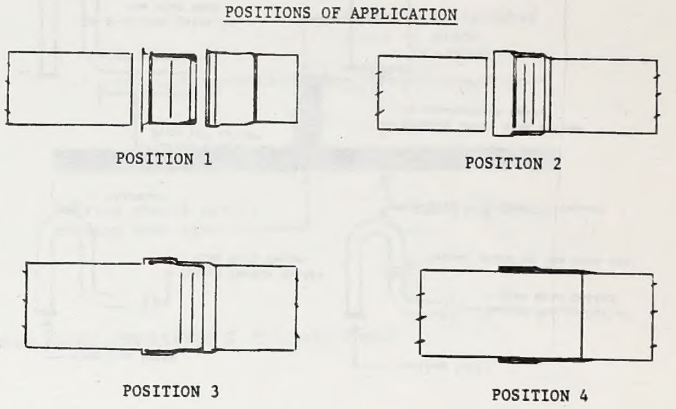
Section 890.ILLUSTRATION H Caulked Joints



Section 890.ILLUSTRATION I Flared Joints

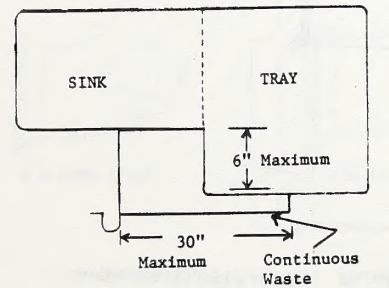


Section 890.ILLUSTRATION J Positions of Application for Compression Type Joints

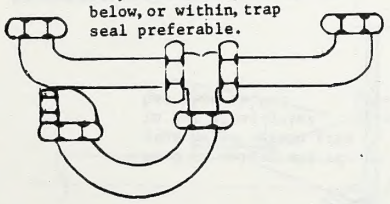


Section 890.EXHIBIT C Illustrations from Subparts E and F

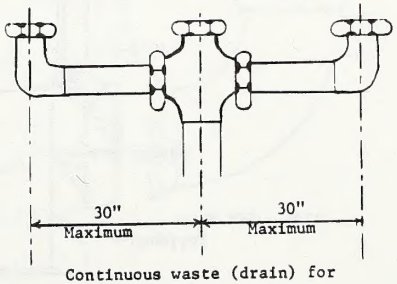
Section 890.ILLUSTRATION A Fixture Traps



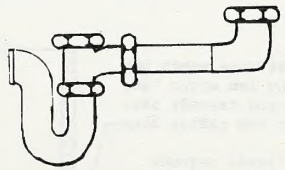
Tray waste connection below, or within, trap seal preferable.



Two-Fixture Continuous Waste With Center-Trap Outlet.

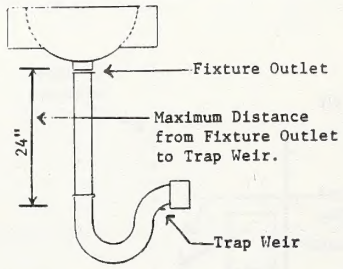


Continuous waste (drain) for Three-Compartment Sink.

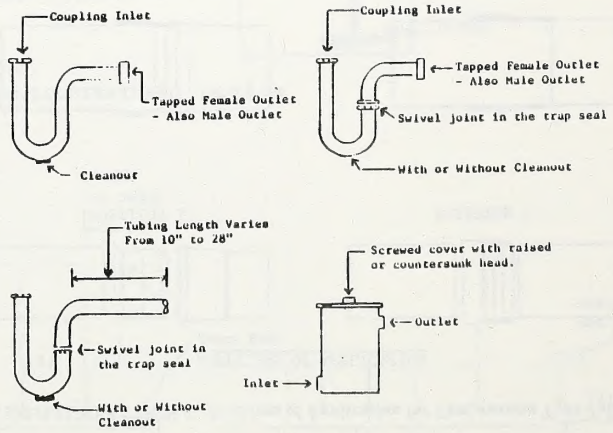


Two-Fixture Continuous Waste With End-Trap Outlet.

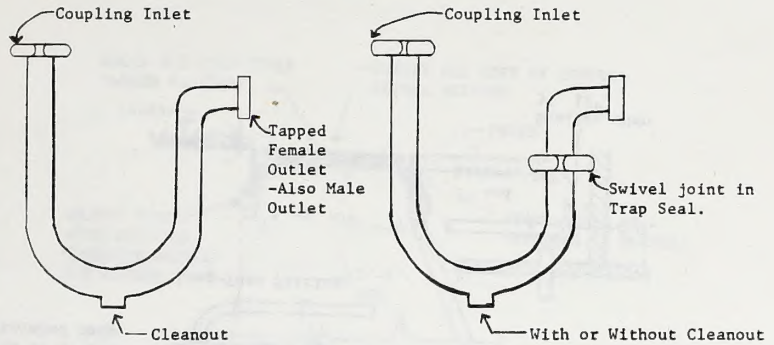
Section 890.ILLUSTRATION B Distance of Trap to Fixture



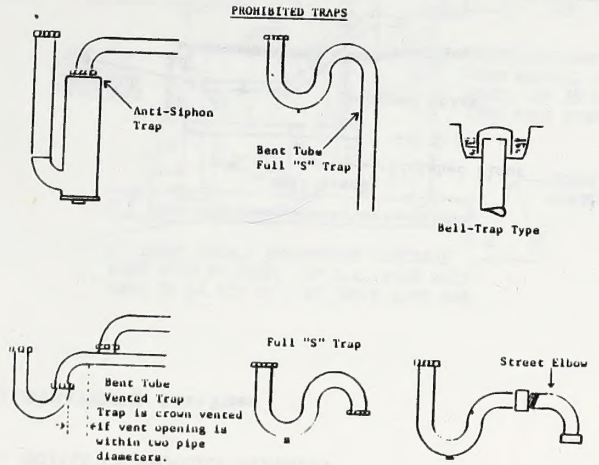
Section 890.ILLUSTRATION C Types of Traps



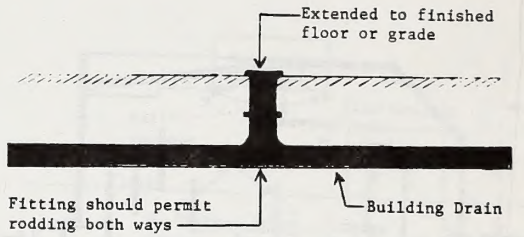
Section 890.ILLUSTRATION D Trap Cleanouts



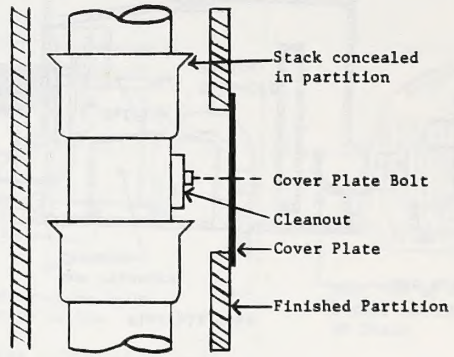
Section 890.ILLUSTRATION E Prohibited Traps



Section 890.ILLUSTRATION F Underground Drainage



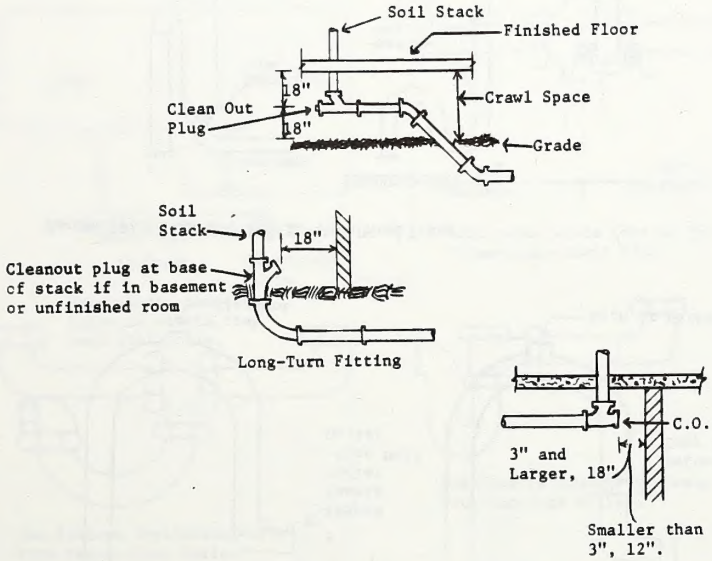
Section 890.ILLUSTRATION G Concealed Piping



DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

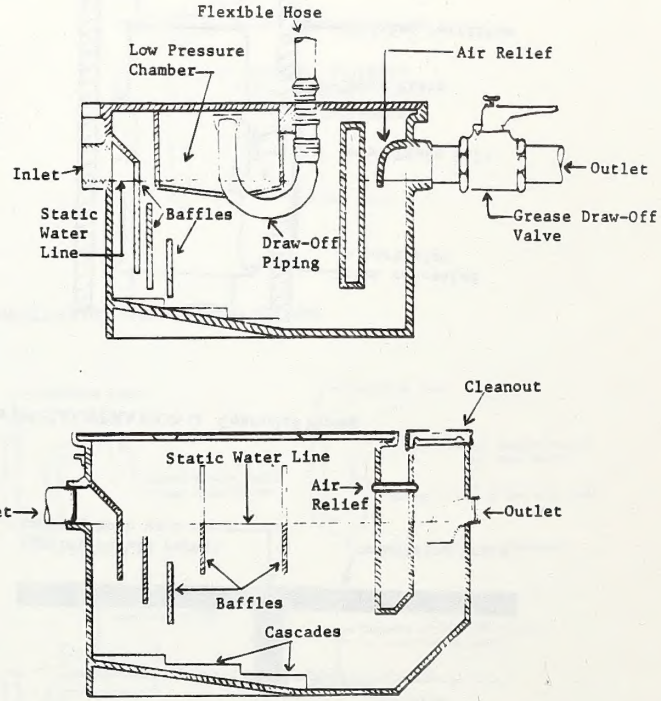
Section 890.ILLUSTRATION H Small Pipes



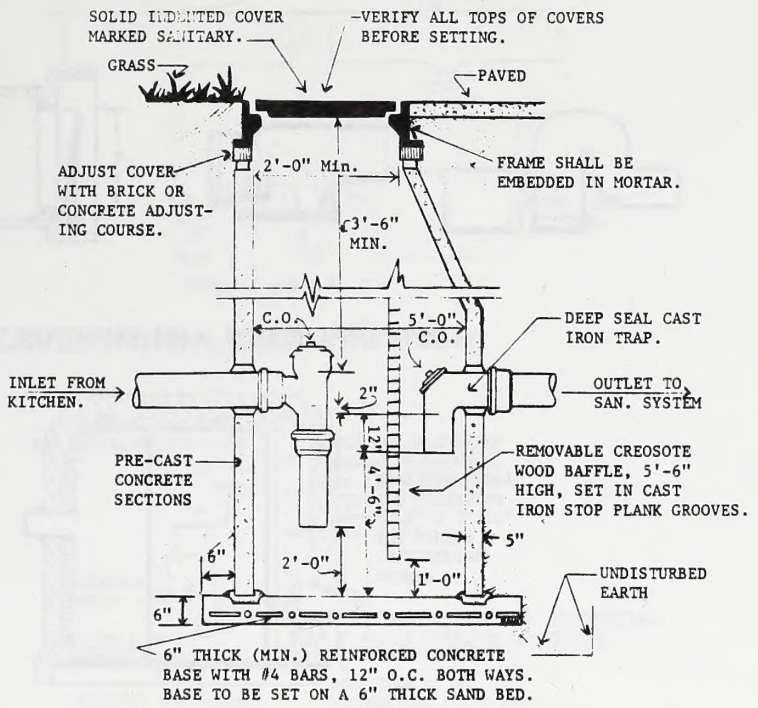
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

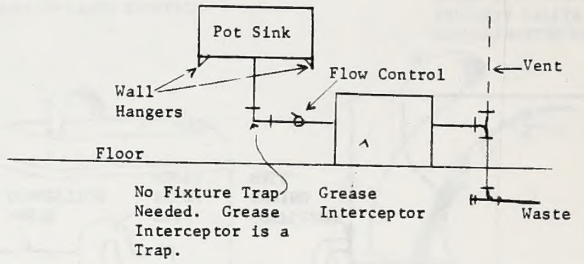
Section 890.ILLUSTRATION I Grease Interceptor



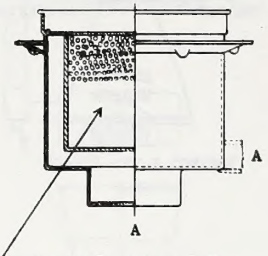
Section 890.ILLUSTRATION J Typical Grease Trap Catch Basin



Section 890.ILLUSTRATION K Interceptors/Separators Vents

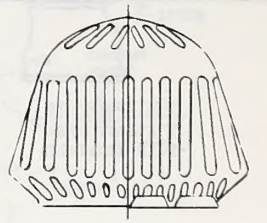


Section 890.ILLUSTRATION L Interceptors



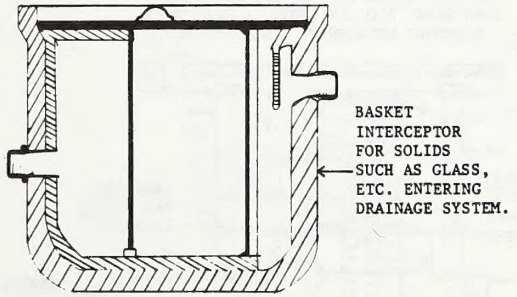
No perforations below to retain solids.

A = Size - Threaded or caulk bottom or side outlet.

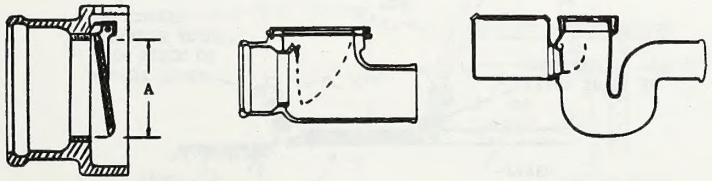


DOME TOP TO PERMIT FLOW WHEN DEBRIS ACCUMULATES AT BASE OF DRAIN.

Section 890.ILLUSTRATION M Interceptors for Bottling Plants

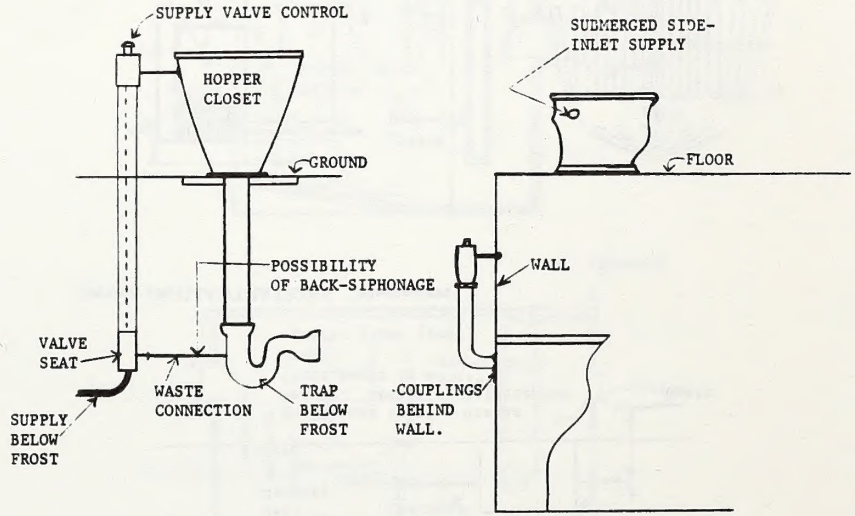


Section 890.ILLUSTRATION N Backwater Valve Location

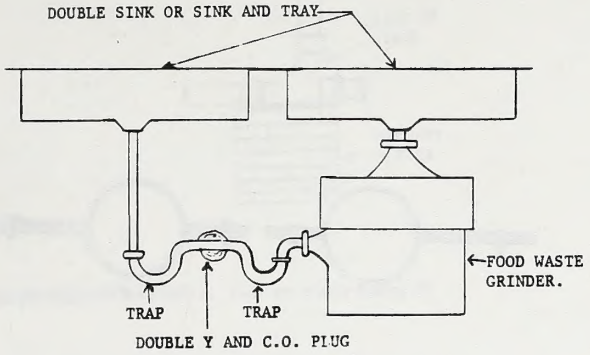


Section 890.EXHIBIT D Illustrations from Subparts G, H, and I

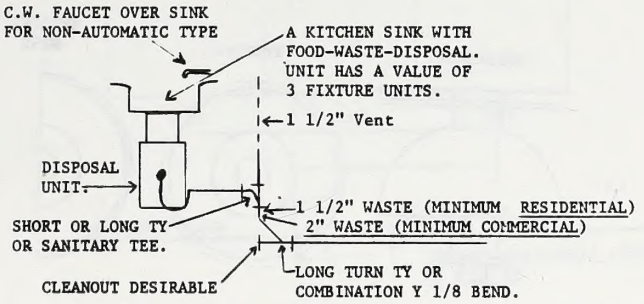
Section 890.ILLUSTRATION A Prohibited Fixtures



Section 890.ILLUSTRATION B Commercial Type Grinder #1

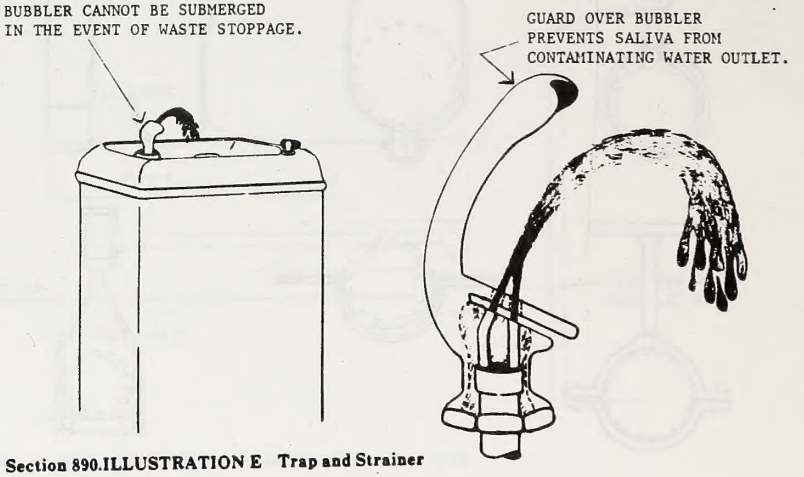


Section 890.ILLUSTRATION C Commercial Type Grinder #2

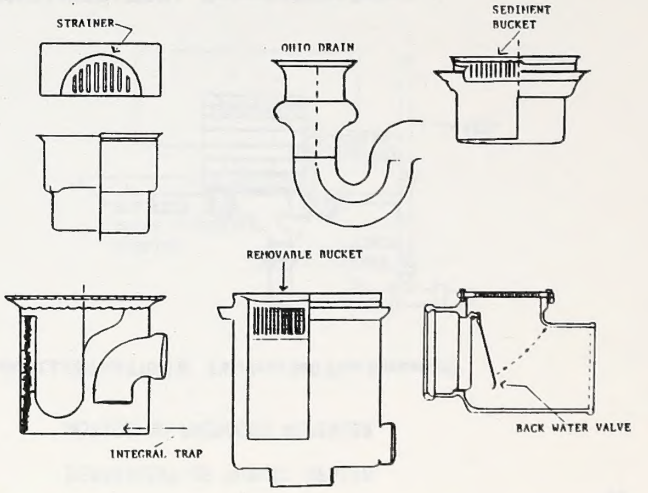


ELECTRIC SWITCH MAY BE INSTALLED AT WALL, AT FRONT OF CABINET, OR OTHER CONVENIENT LOCATION.

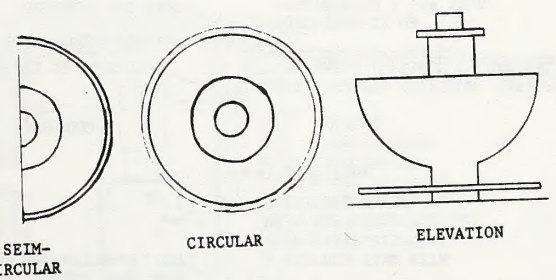
Section 890.ILLUSTRATION D Protective Guard



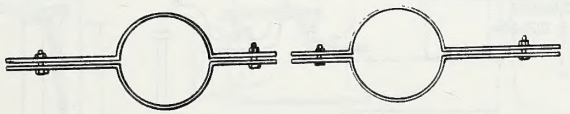
Section 890.ILLUSTRATION E Trap and Strainer



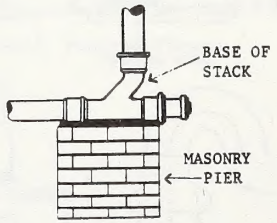
Section 890.ILLUSTRATION F Circular Type Wash Sinks



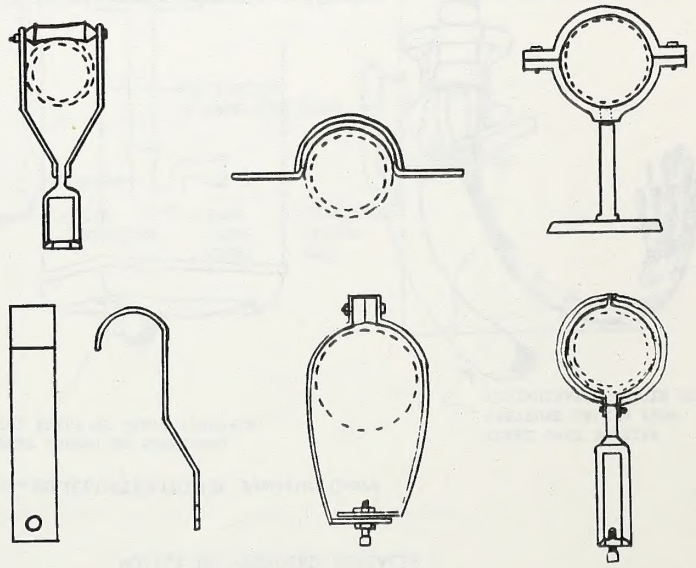
Section 890.ILLUSTRATION G Cast Iron Soil Pipe Support #1



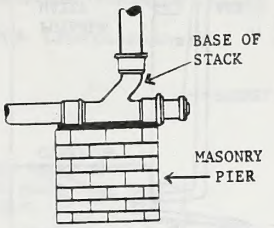
Section 890.ILLUSTRATION H Cast Iron Soil Pipe Support #2



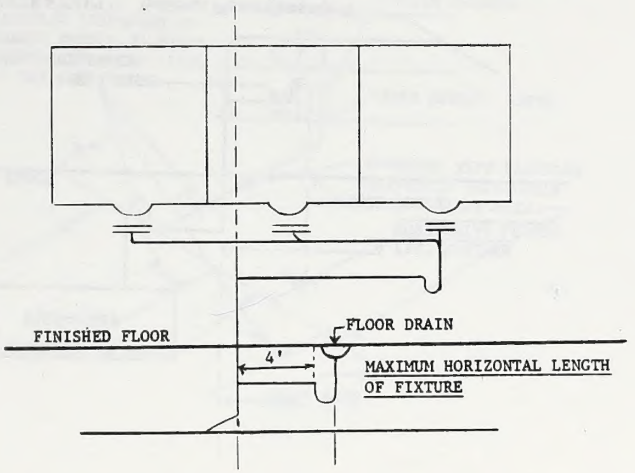
Section 890.ILLUSTRATION I Horizontal Piping Support



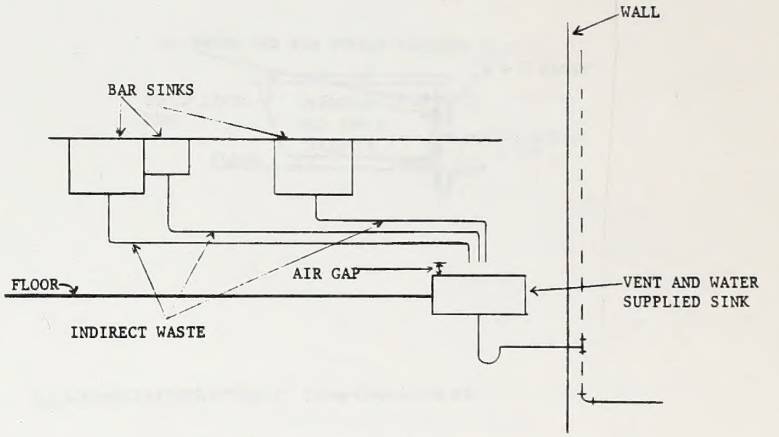
Section 890.ILLUSTRATION J Cast Iron Soil Stack Support



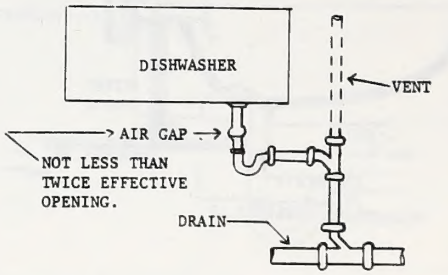
Section 890.ILLUSTRATION K Indirect Waste Piping #1



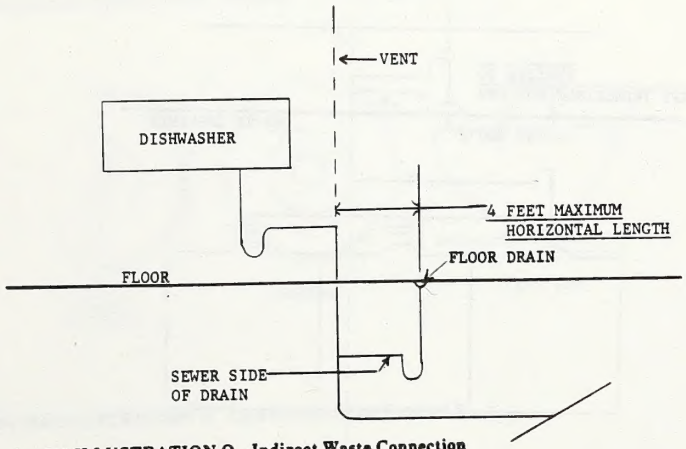
Section 890.ILLUSTRATION L Indirect Waste Piping #2



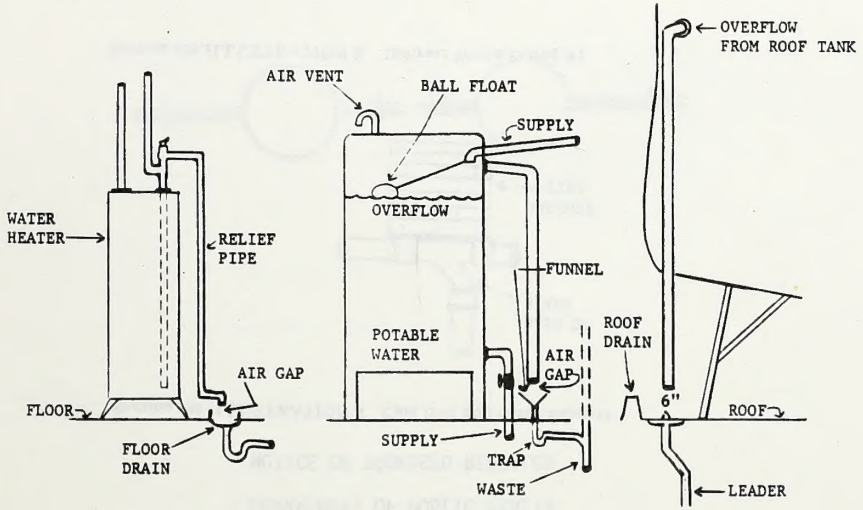
Section 890.ILLUSTRATION M Indirect Waste Piping #3



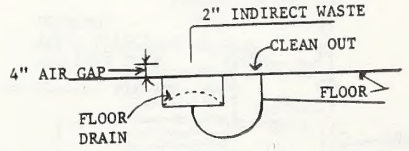
Section 890.ILLUSTRATION N Indirect Waste Piping #4



Section 890.ILLUSTRATION O Indirect Waste Connection

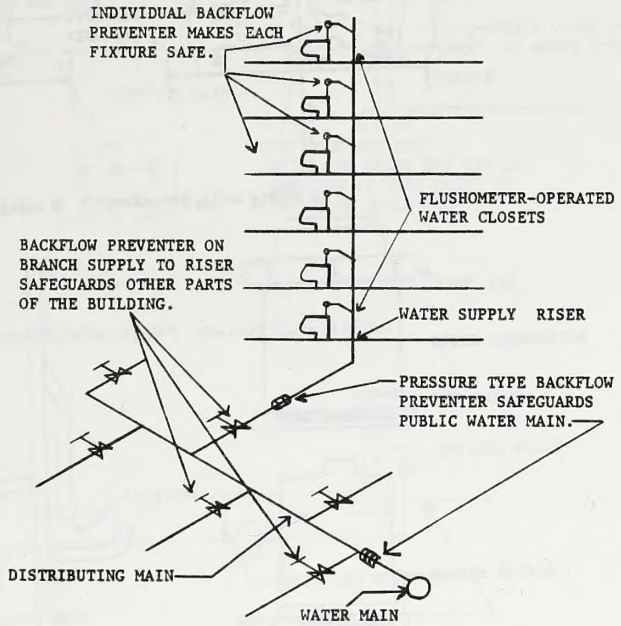


Section 890.ILLUSTRATION P Air Gaps

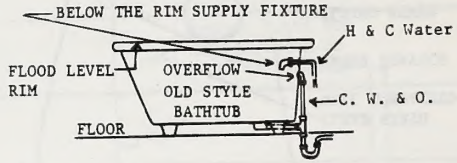


Section 890.EXHIBIT E Illustrations from Subparts J and K

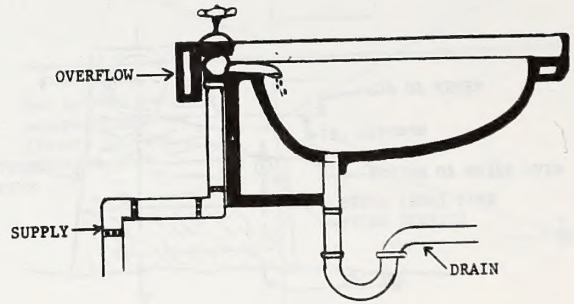
Section 890.ILLUSTRATION A Cross Connection #1



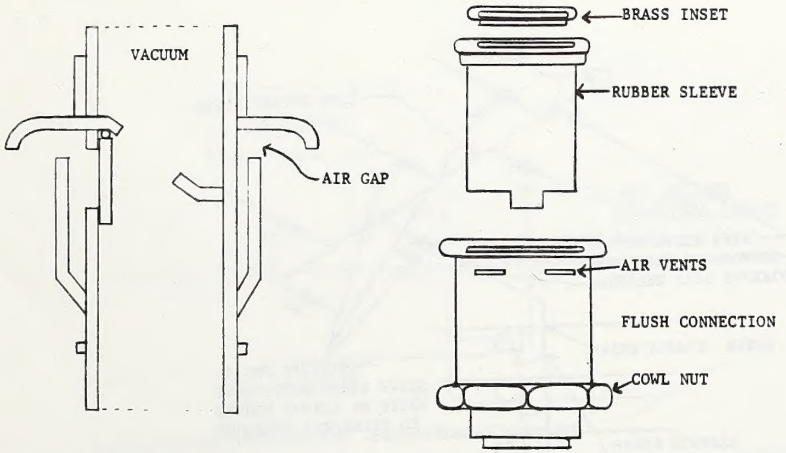
Section 890.ILLUSTRATION B Cross Connection #2



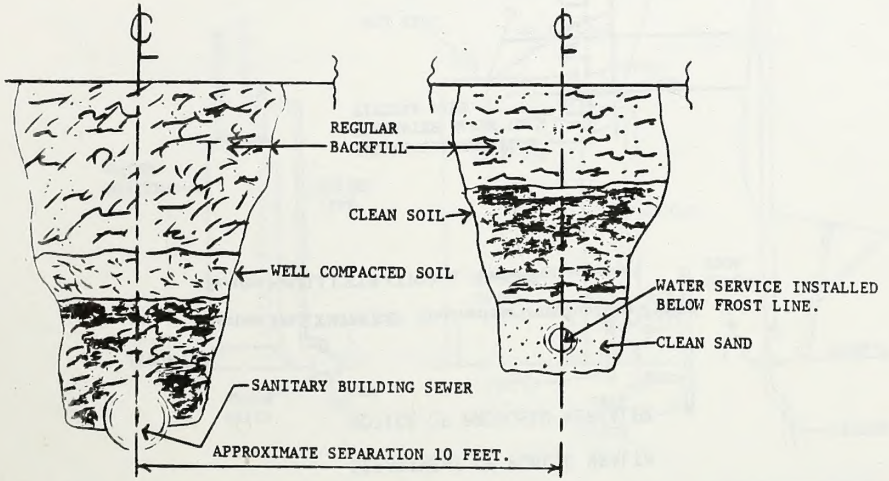
Section 890.ILLUSTRATION C Cross Connection #3



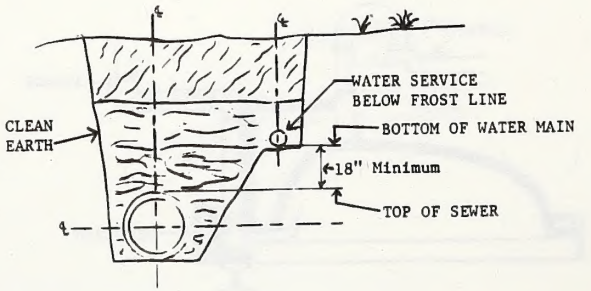
Section 890.ILLUSTRATION D Flushometer Valve



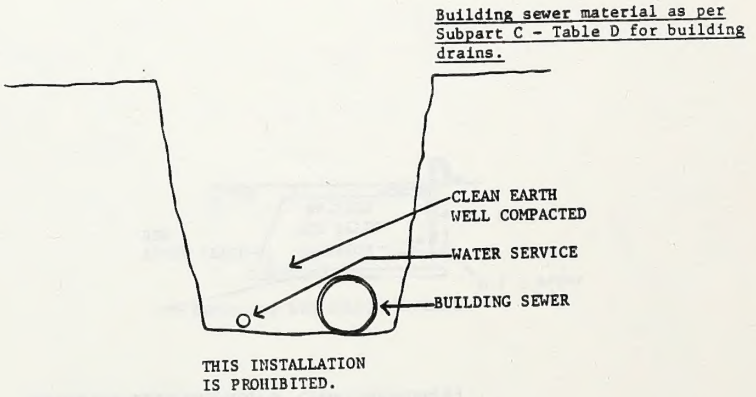
Section 890.ILLUSTRATION E Underground Water Piping #1



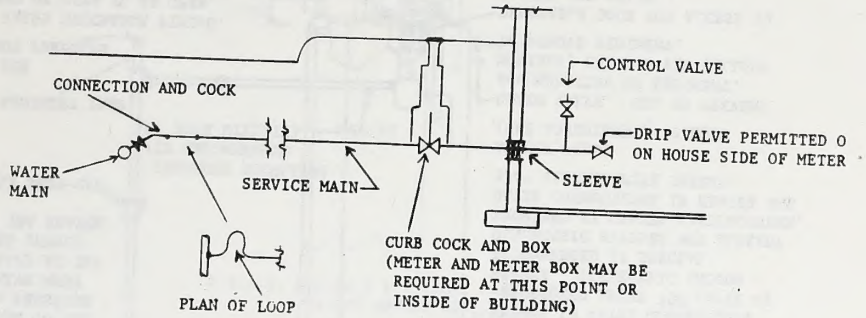
Section 890.ILLUSTRATION F Underground Water Piping #2



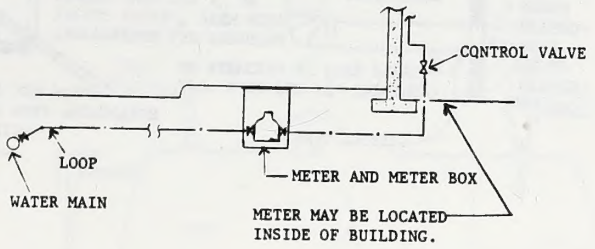
Section 890.ILLUSTRATION G Underground Water Piping #3



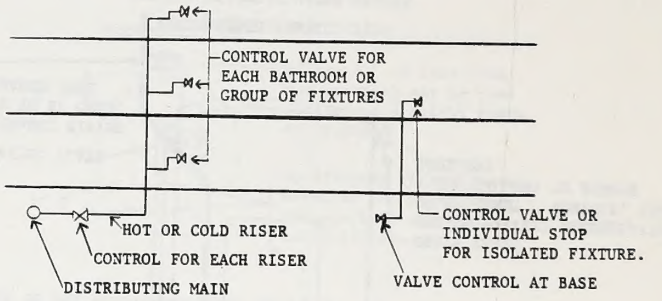
Section 890.ILLUSTRATION H Water Supply Control



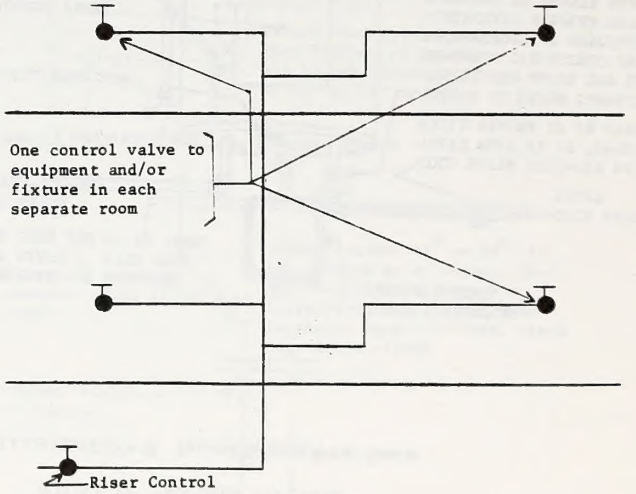
Section 890.ILLUSTRATION I Shut-Off Valve at Meter



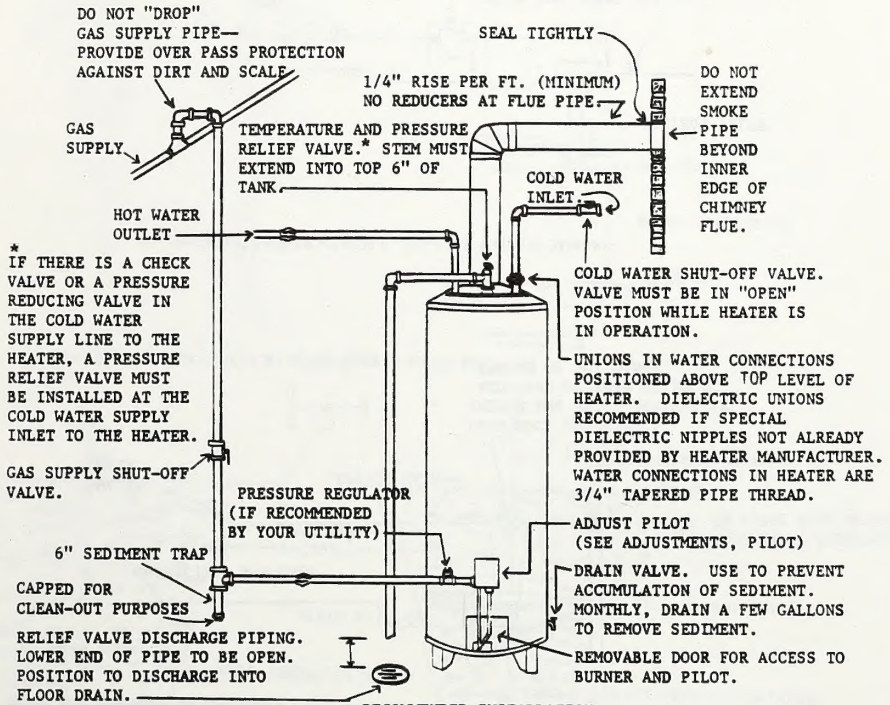
Section 890.ILLUSTRATION J Separate Controls for Each Family Unit



Section 890.ILLUSTRATION K Shut-Off Valves in Buildings Other Than Dwellings



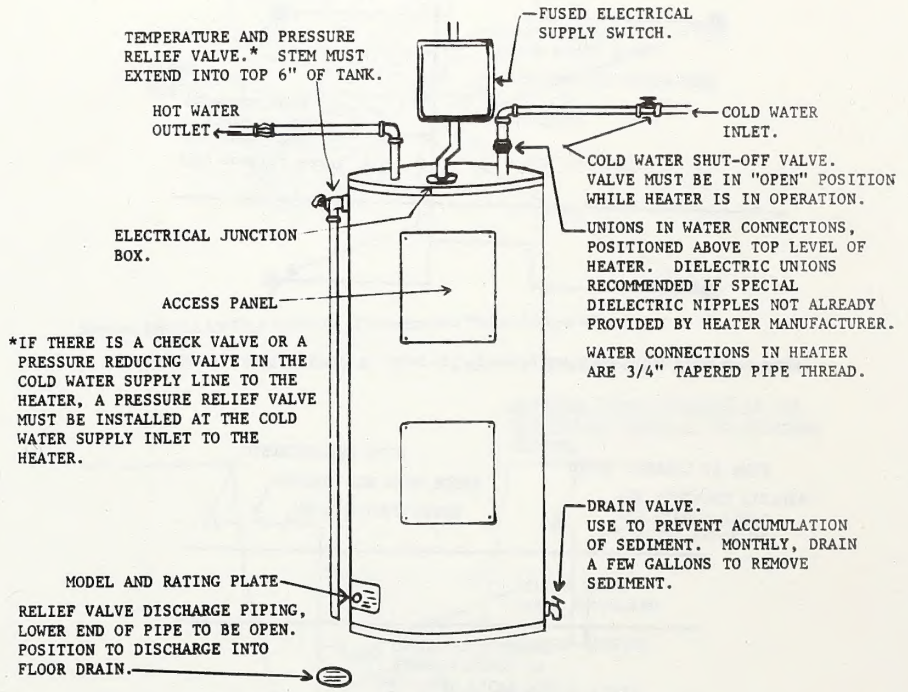
Section 890.ILLUSTRATION L Typical Gas Water Heater



RECOMMENDED INSTALLATION

TYPICAL GAS WATER HEATER

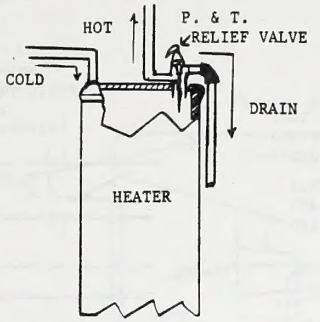
Section 890.ILLUSTRATION M Typical Electric Water Heater



RECOMMENDED INSTALLATION

TYPICAL ELECTRIC WATER HEATER

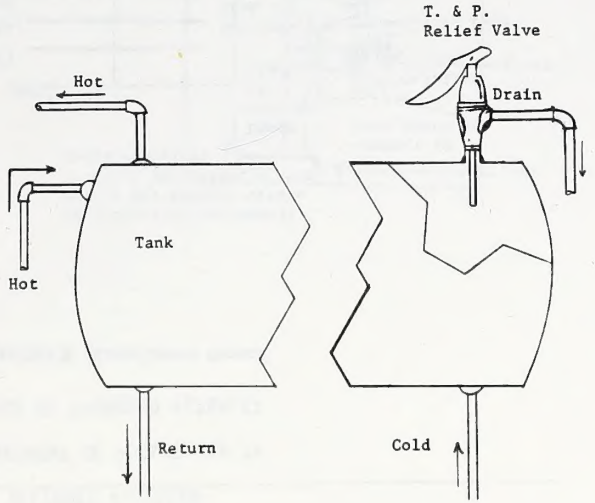
Section 890.ILLUSTRATION N P & T Valve Installed in Hot Outlet Line



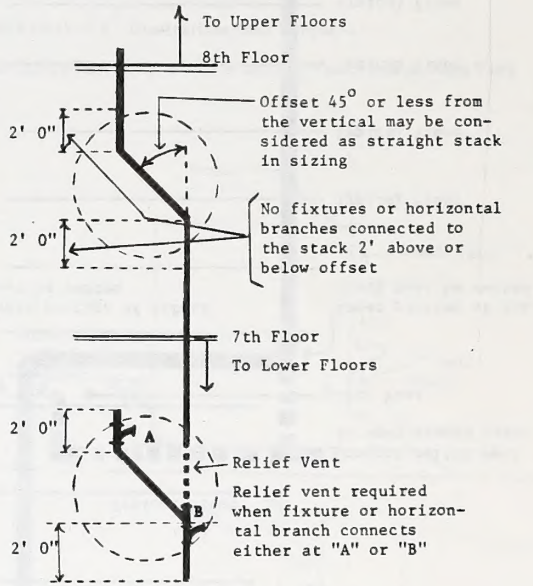
U.S.A.S. Z21.22 P & T VALVE INSTALLED
IN HOT OUTLET LINE

When valve is connected into the hot water outlet line the male inlet connection type provides the most convenient means of installation and eliminates a nipple.

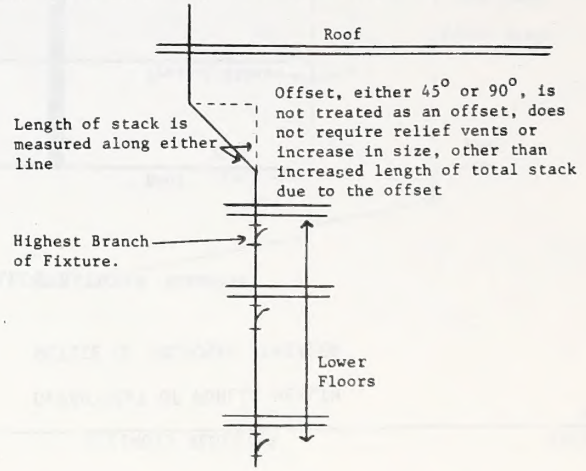
Section 890.ILLUSTRATION O P & T Relief Valve



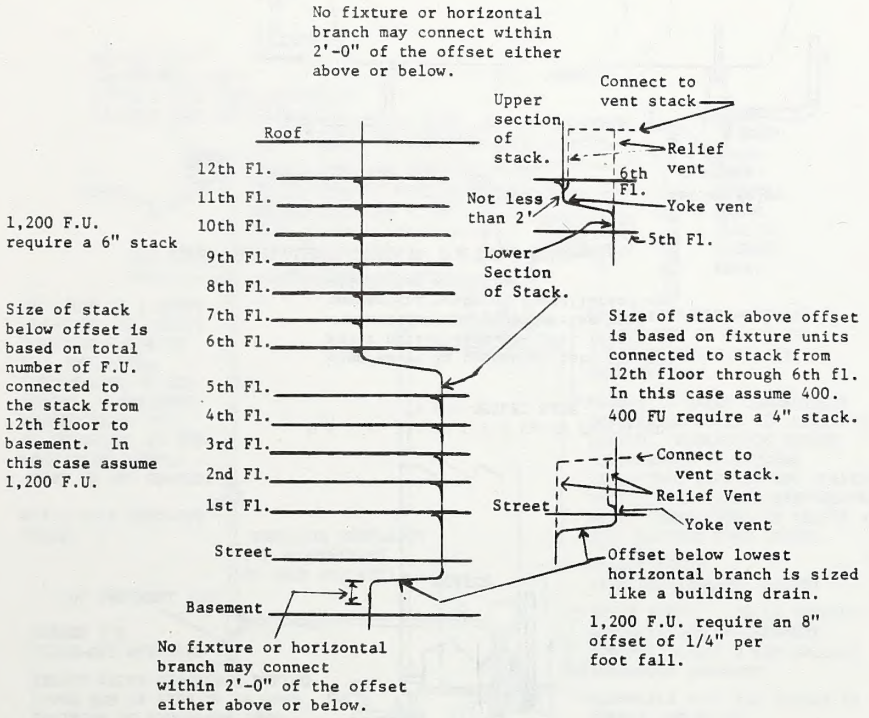
Section 890.ILLUSTRATION P Offsets on Drainage Piping



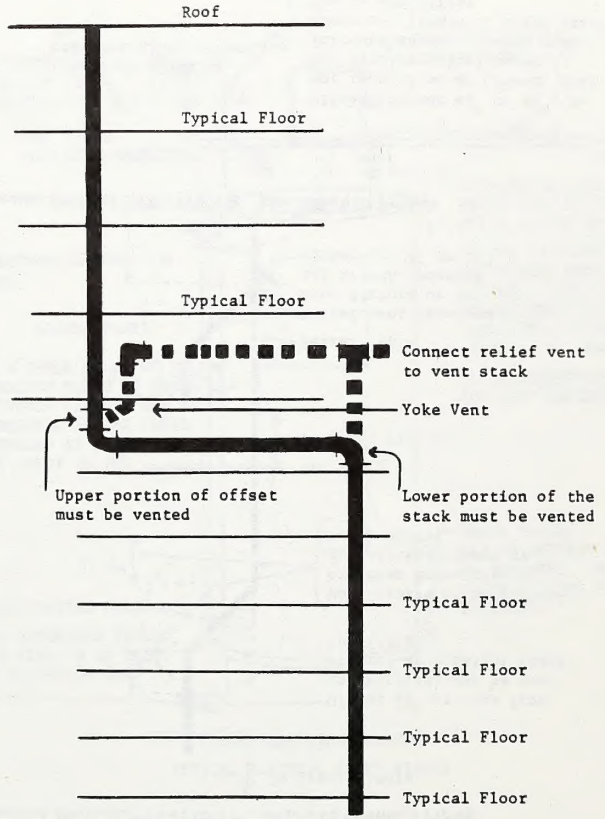
Section 890.ILLUSTRATION Q Above Highest Branch



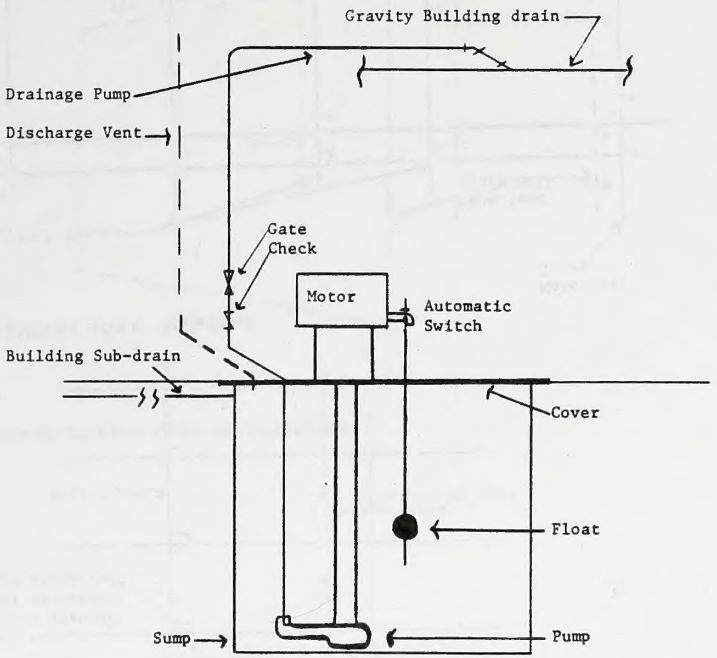
Section 890.ILLUSTRATION R Below Lowest Branch



Section 890.ILLUSTRATION S Relief Vent

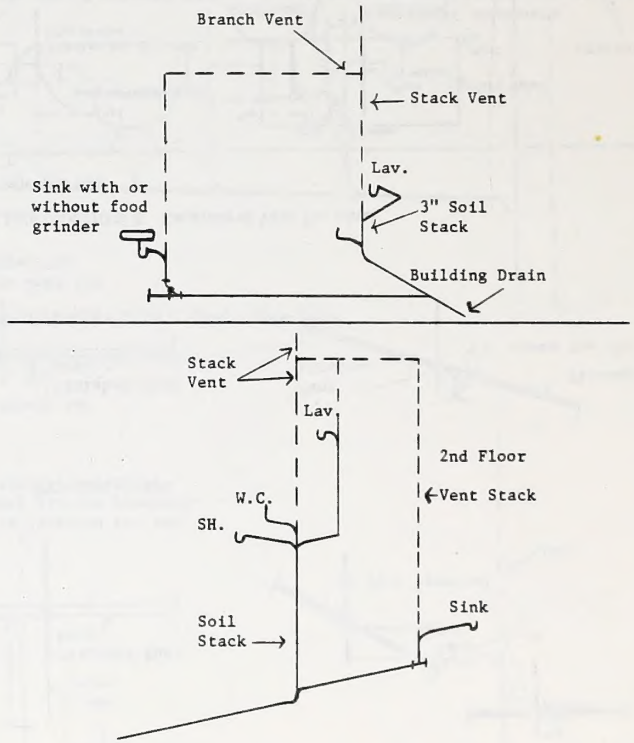


Section 890.ILLUSTRATION T Sanitary Wastes Below Sewer



Section 890.EXHIBIT F Illustrations from Subpart L

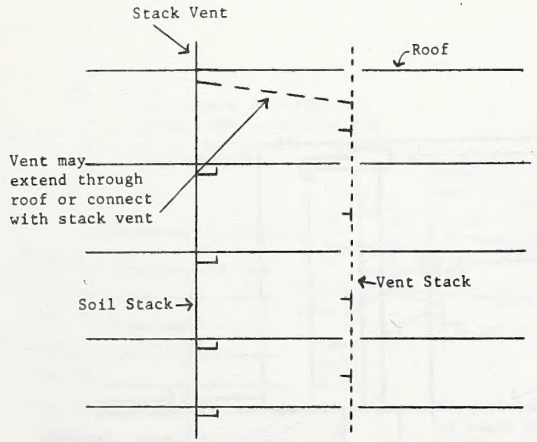
Section 890.ILLUSTRATION A Installation of Vent Stack or Main Vent



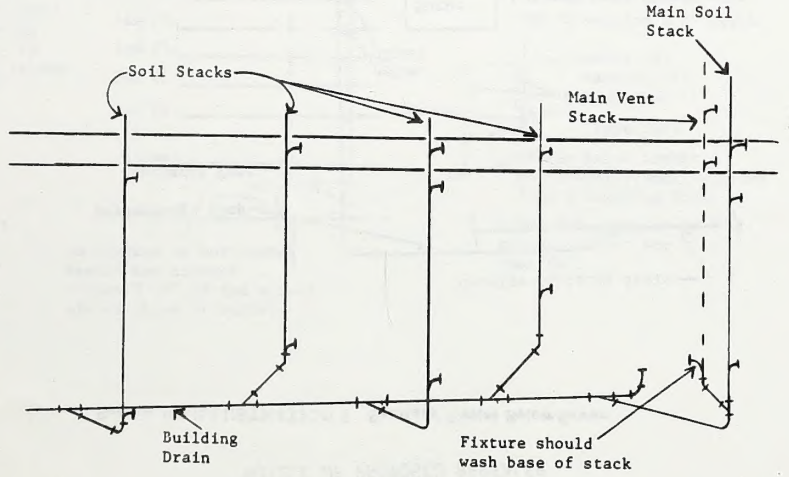
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

Section 890.ILLUSTRATION B Terminal



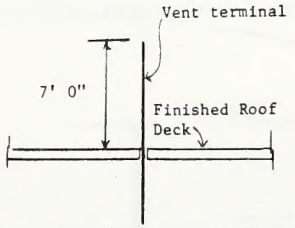
Section 890.ILLUSTRATION C Main Stack

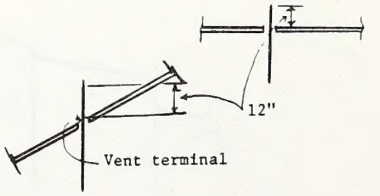


DEPARTMENT OF PUBLIC HEALTH

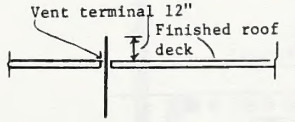
NOTICE OF PROPOSED REPEALER

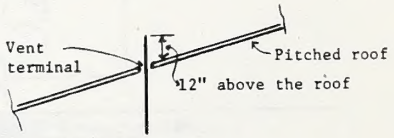
Section 890.ILLUSTRATION D Roof Garden





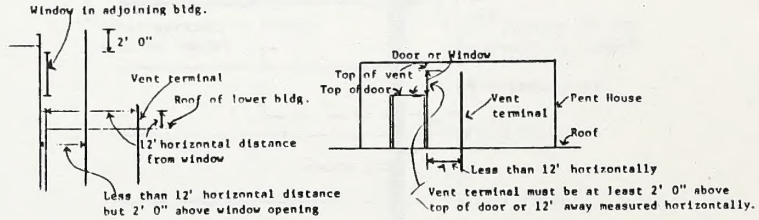
When roof is intended for sun deck or other similar purposes, the vent terminal should be extended.

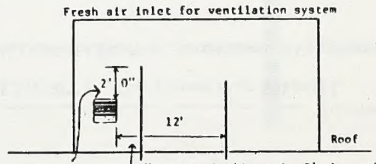




When roof is used for weather protection only.

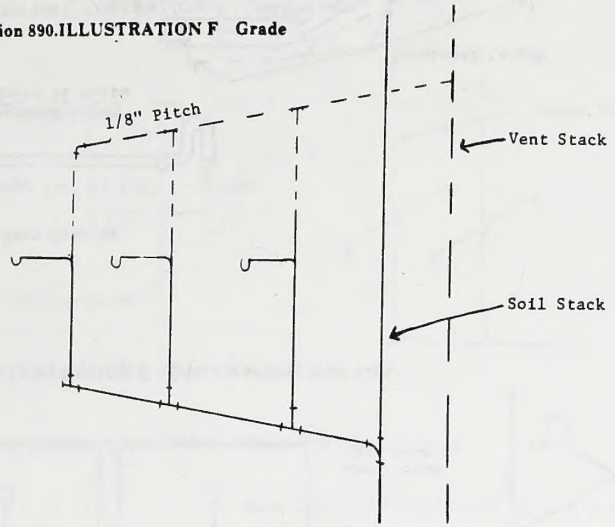
Section 890.ILLUSTRATION E Location of Vent Terminal



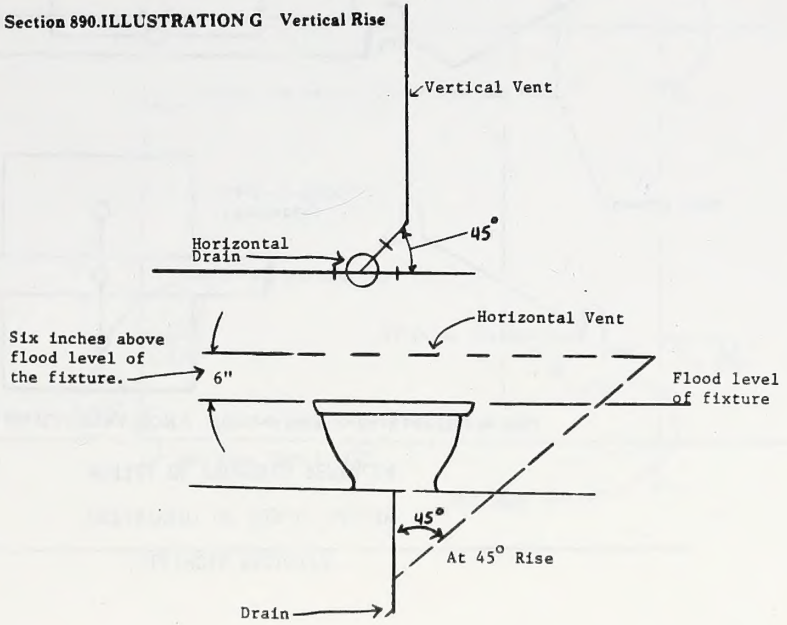


NOTE: The distances required by the Code are minimum. When a vent terminal is located near a high velocity air intake, greater horizontal or vertical distances should be allowed.

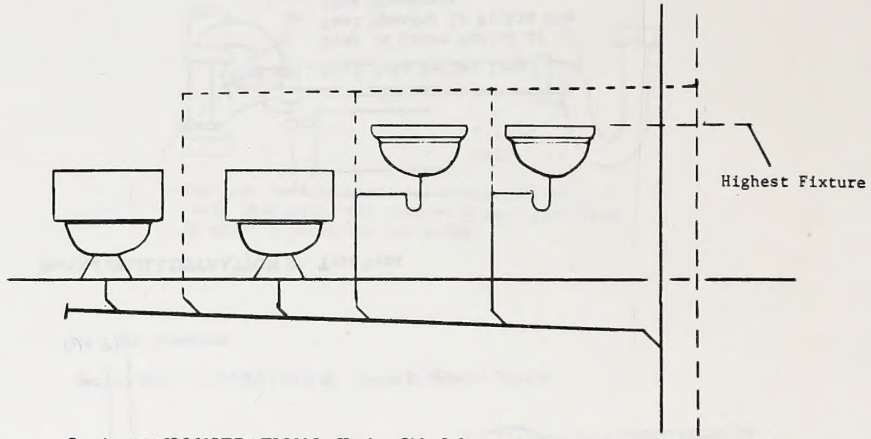
Section 890.ILLUSTRATION F Grade



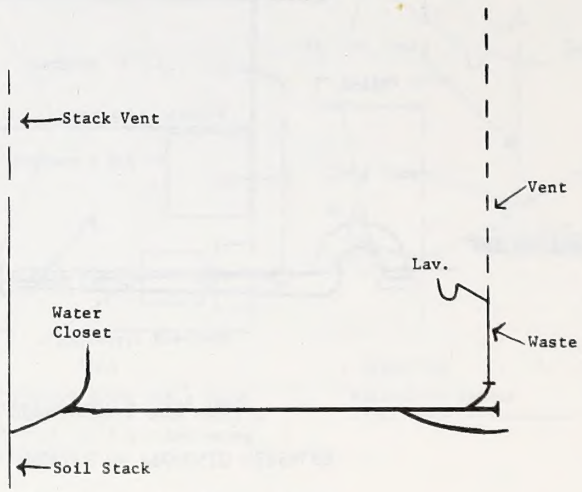
Section 890.ILLUSTRATION G Vertical Rise



Section 890.ILLUSTRATION H Height Above Fixtures



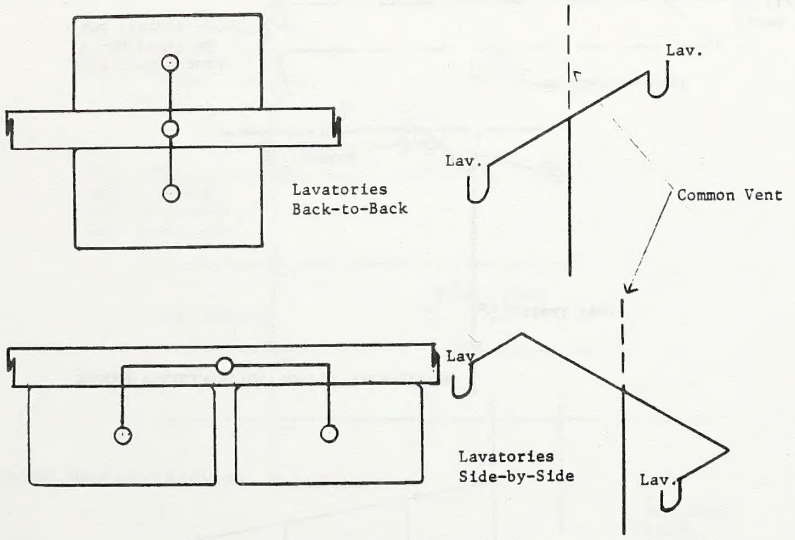
Section 890.ILLUSTRATION I Heel or Side-Inlet



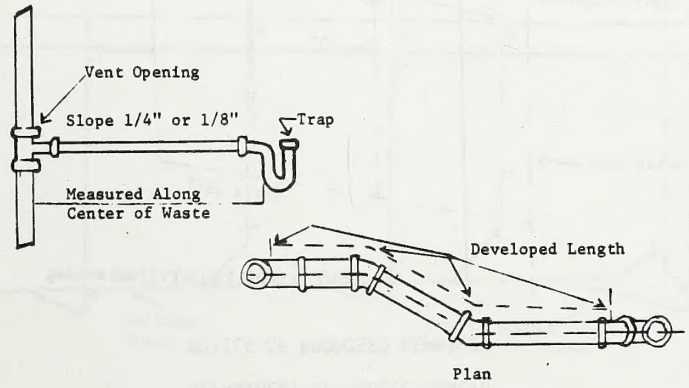
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

Section 890.ILLUSTRATION J Fixtures Back-to-Back and Side-by-Side



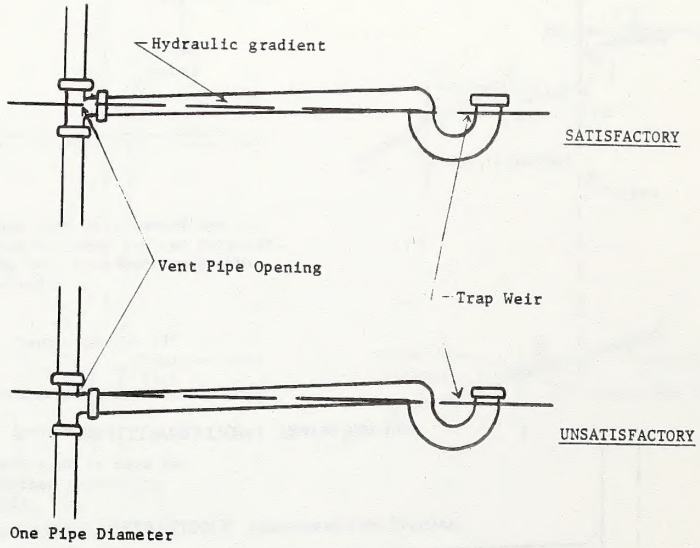
Section 890.ILLUSTRATION K Distance of Trap from Vent



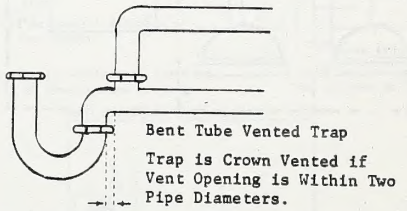
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

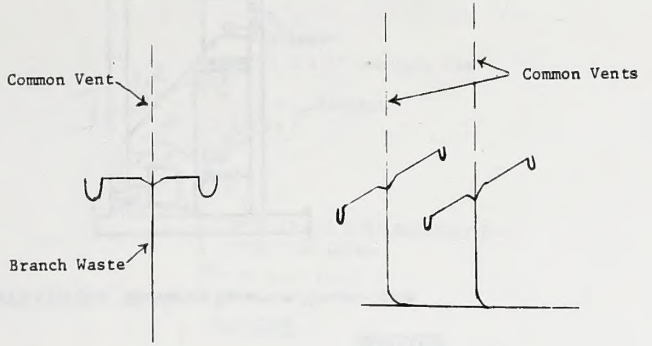
Section 890.ILLUSTRATION L Trap Weir



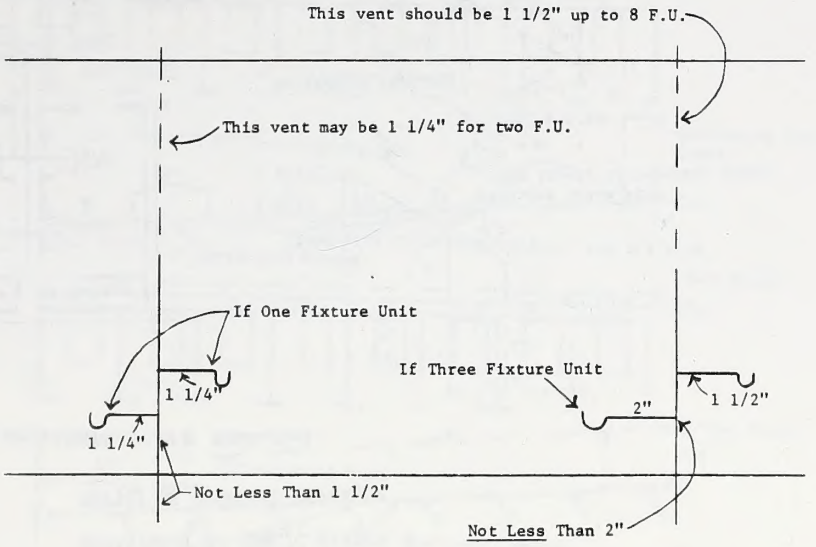
Section 890.ILLUSTRATION M Trap Vent



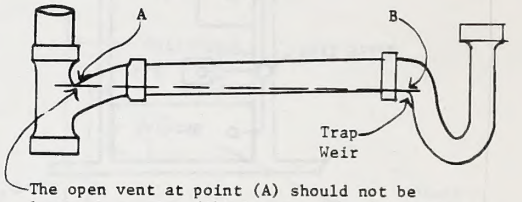
Section 890.ILLUSTRATION N Common Vent



Section 890.ILLUSTRATION O Vertical Wet Vent

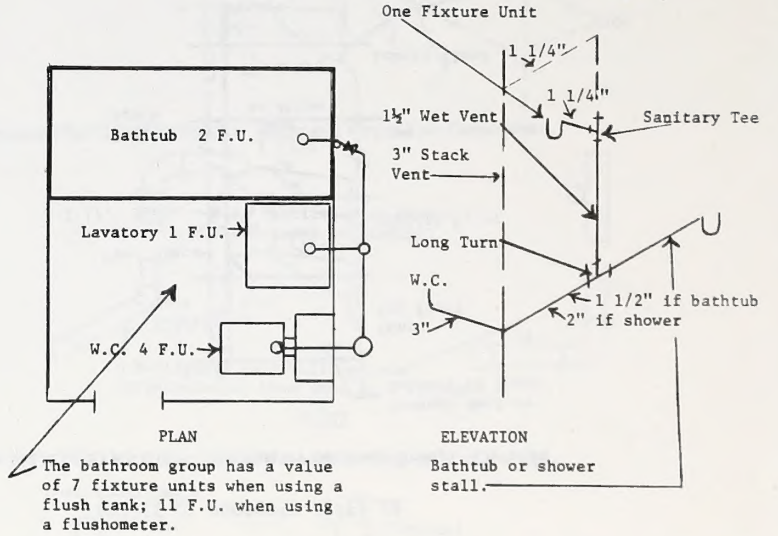


Section 890.ILLUSTRATION P Hydraulic Gradient



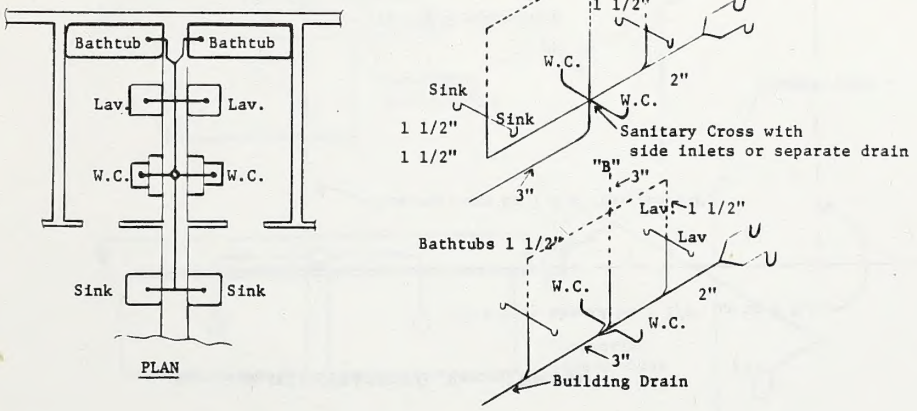
The open vent at point (A) should not be lower than point (B) when straight level line is drawn between the two points.

Section 890.ILLUSTRATION Q Single Bathroom Groups

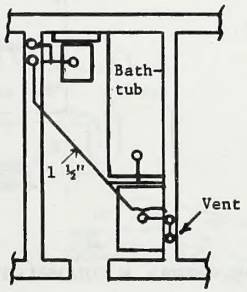


The bathroom group has a value of 7 fixture units when using a flush tank; 11 F.U. when using a flushometer.

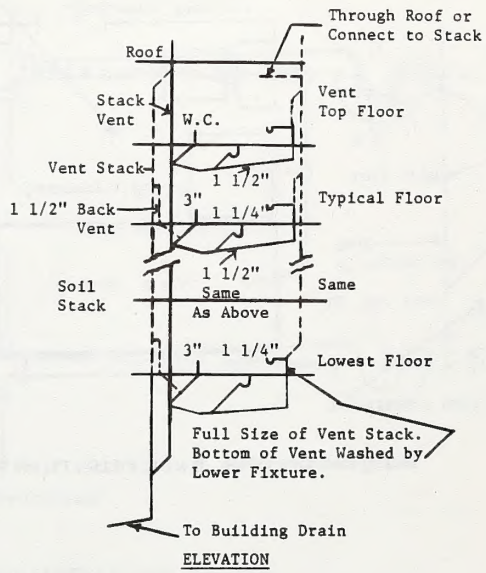
Section 890.ILLUSTRATION R Double Bath



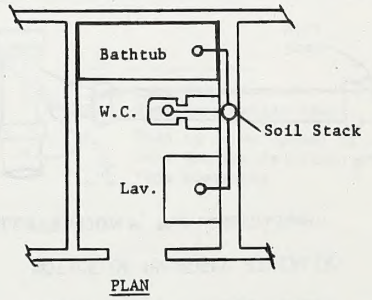
Section 890.ILLUSTRATION S Multistory Bathroom Groups—Plan



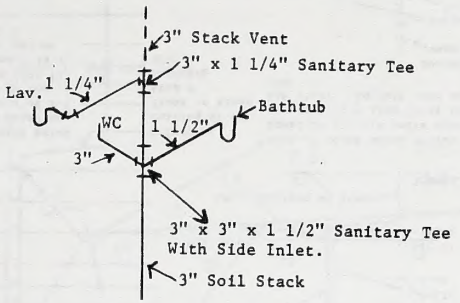
Section 890.ILLUSTRATION T Multistory Bathroom Groups—Elevation



Section 890.ILLUSTRATION U One-Bathroom Group—Plan

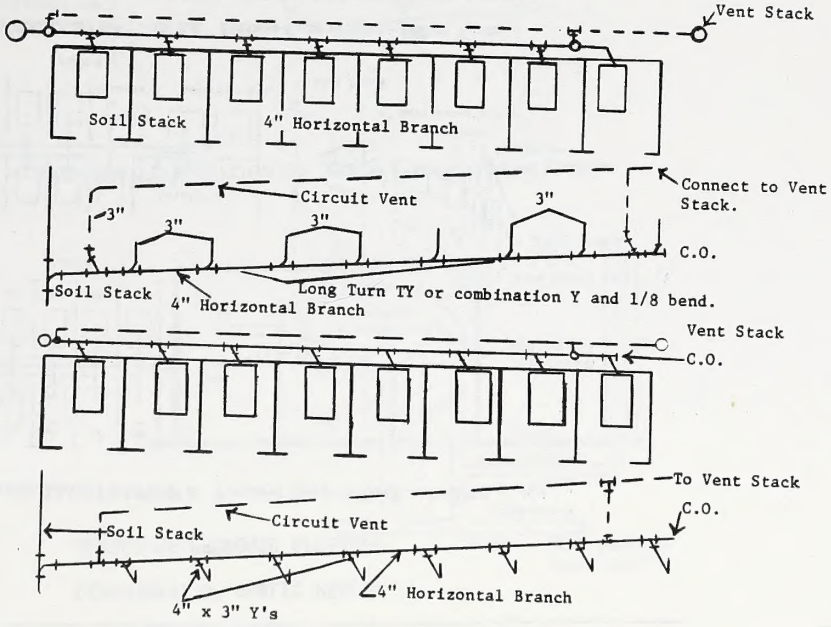


Section 890.ILLUSTRATION V One-Bathroom Group—Elevation

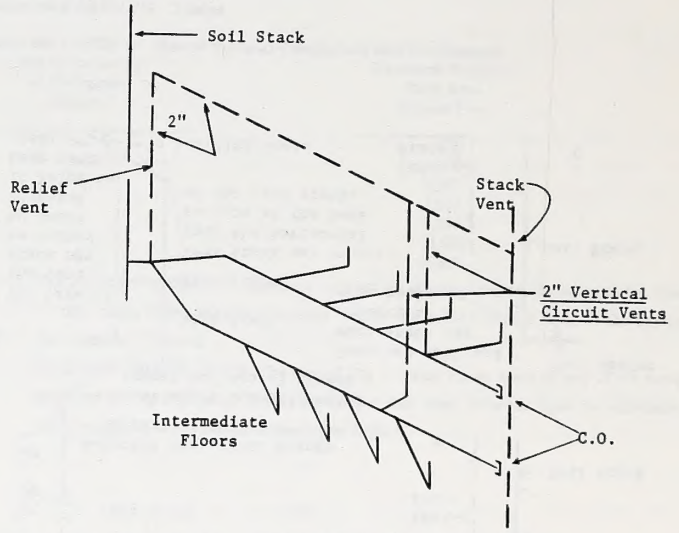


ELEVATION

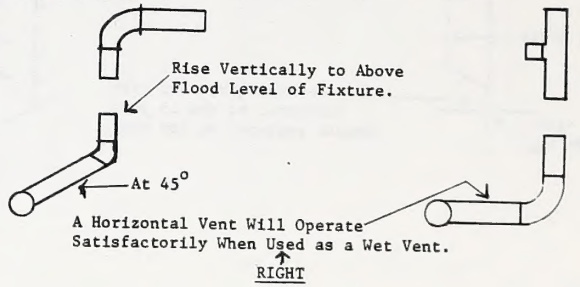
Section 890.ILLUSTRATION W Battery Venting



Section 890.ILLUSTRATION X Dual Branches

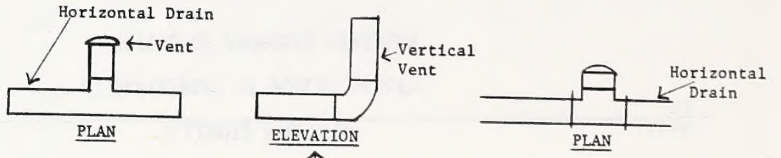


Section 890.ILLUSTRATION Y Right and Wrong Vent Connections



RIGHT

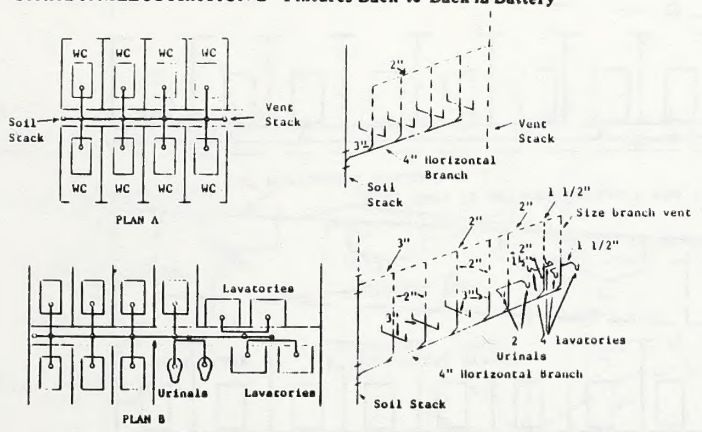
A Horizontal Vent Will Clog in a Short Time.



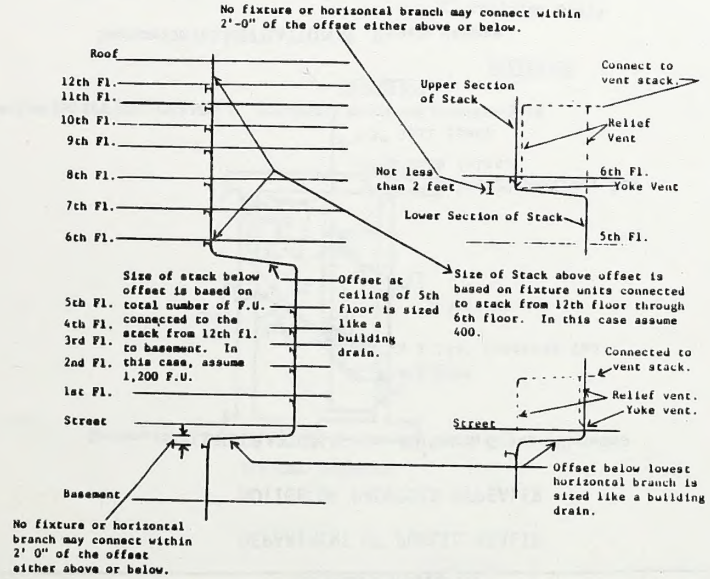
PLAN ELEVATION PLAN

WRONG

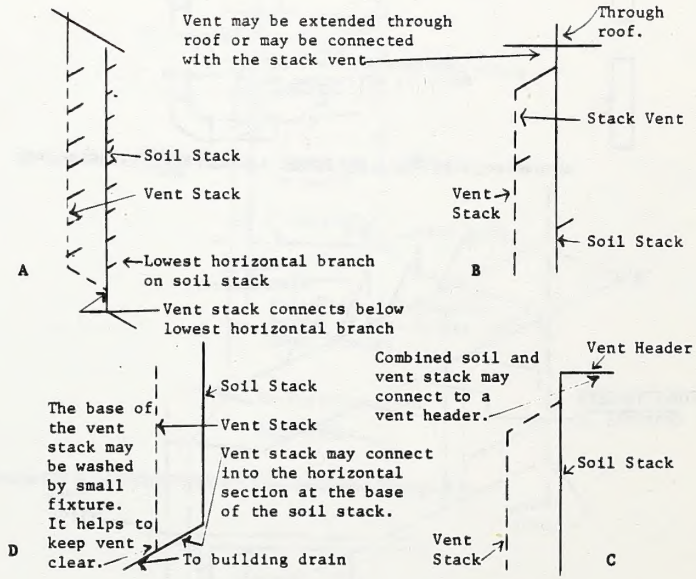
Section 890.ILLUSTRATION Z Fixtures Back-to-Back in Battery



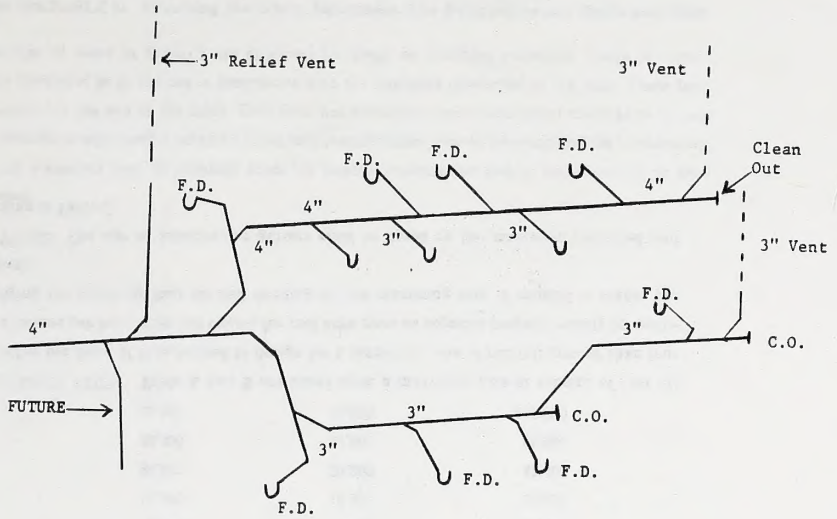
Section 890.ILLUSTRATION AA Fixture Connections—Offset Vents



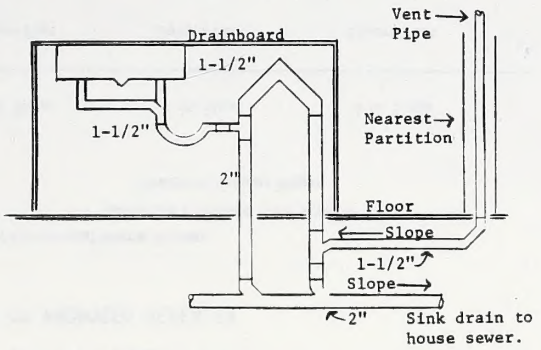
Section 890.ILLUSTRATION BB Main Vents



Section 890.ILLUSTRATION CC Combination Waste and Vent



Section 890.ILLUSTRATION DD Special Venting for Island Fixtures



Section 890.EXHIBIT G Tables

Section 890.TABLE A Size of Vertical Conductors and Downspouts

Size of Conductor[1] or Downspout (Inches)	Maximum Projected Roof Area (Square Feet)
2	720
2-½	1,300
3	2,200
4	4,600
5	8,650
6	13,500
8	29,000

[1] The equivalent diameter of square or rectangular downspouts may be taken as the diameter of that circle which may be inscribed within the cross-sectional area of the downspout. See footnote - Table B.

BUILDING STORM DRAIN. The size of the building storm drain or any of its horizontal branches having a slope of ½ inch or less per foot, shall be based upon the maximum projected roof area to be handled according to Table B.

Section 890.TABLE B Size of Horizontal Storm Drains

Diameter of Drain	Maximum Projected Roof Area for Drains of Various Slopes		
	⅛ in. Slope	¼ in. Slope	½ in. Slope
Inches	Square Feet	Square Feet	Square Feet
3	822	1,160	1,644
4	1,800	2,650	3,760
5	3,340	4,720	6,680
6	5,350	7,550	10,700
8	11,500	16,300	23,000
10	20,700	29,200	41,400
12	33,300	47,000	66,600
15	59,500	84,000	119,000

AGENCY NOTE: Table A and B are based upon a maximum rate of rainfall of four (4) inches per hour. If it is desired to design for a maximum rate of rainfall greater than four (4) inches per hour, then the figures for roof area must be adjusted proportionately by multiplying the figure by four (4) and dividing by the maximum rate of rainfall in inches per hour.

ROOF GUTTERS. The size of semicircular gutters shall be based on the maximum projected roof area, according to Table C.

Section 890.TABLE C Size of Gutters

Diameter of Gutter[1]	Maximum Projected Roof Area for Gutters of Various Slopes			
	1/16 in. Slope	⅛ in. Slope	¼ in. Slope	½ in. Slope
Inches	Square Feet	Square Feet	Square Feet	Square Feet
3	170	240	340	480
4	360	510	720	1,020
5	625	880	1,250	1,020
6	960	1,360	1,920	2,770
7	1,380	1,950	2,760	3,900
8	1,990	2,800	3,980	5,600
10	3,600	5,100	7,200	10,000

[1] Gutters other than semicircular may be used provided they have an equivalent cross-section area.

SIZE OF COMBINED DRAINS AND SEWERS

CONVERSION OF ROOF AREA TO DRAINAGE FIXTURE UNITS. The drainage area may be converted to equivalent drainage fixture unit loads. (1,000 square feet or less equals 256 DFU. Each additional 3.9 square feet equals one (1) DFU.)

RAINFALL GREATER THAN FOUR (4) INCHES PER HOUR. If it is desired to design for rainfall greater than four (4) inches per hour, the 1,000 square foot equivalent specified above and the 3.9 square feet of drainage area equal one (1) DFU shall be adjusted by multiplying by four (4) and dividing by the rainfall in inches per hour.

VALUES FOR CONTINUOUS FLOW

CONTINUOUS-SEMI-CONTINUOUS DISCHARGE. Where there is a continuous or semi-continuous discharge of clear water waste into the building storm drain, as from a pump, ejector, air-conditioning plant, or similar device, each gallon per minute is equivalent to two (2) DFU based on a four (4) inch rainfall in inches per hour.

Section 890.TABLE D Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

The listings of items in Table D are approved for usage as plumbing materials. Usage of certain items is restricted as to the use in accordance with the footnotes referenced in the table. These footnotes appear at the end of the table. Each item has limitations (per standard(s) cited) as to its use. Such limitations (standard(s)) shall be taken into consideration prior to selection and use in plubming. Copies of standards may be obtained from the issuing organization and/or manufacturer or local distributor.

SECTION 890.TABLE D

PLUMBING MATERIAL, EQUIPMENT, USE RESTRICTIONS AND APPLICABLE STANDARDS

The listings of items in Table D are approved for usage as plumbing materials. Usage of certain items is restricted as to the use in accordance with the footnotes referenced in the table. These footnotes appear at the end of the table. Each item has limitations (per standard(s) cited) as to its use. Such limitations (standard(s)) shall be taken into consideration prior to selection and use in plumbing. Copies of standards may be obtained from the issuing organization and/or manufacturer or local distributor.

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	STANDARDS ANSI	ASTM	FS	OTHER
	FERROUS PIPE, FITTINGS & VALVES					
1	Cast Iron Drainage Fittings, Threaded	A B C D3	B16.12.1977	None	WW/P/49lb/1967	None
2	Cast Iron Fittings (UPC Specials)	None	None	None	None	IAPMO PS 5/66
3	Cast Iron Screwed Fittings,Threaded	F	B16.4/1971	None	WW/P/50lb/1967	None
4	Cast Iron Pipe (Threaded) DWV	A B C D3	A40.5/1973	None	WW/P/356a/1967	None
5	Cast Iron Pipe (High Silicone Content)	A C	None	A74/76	None	None
6	Cast Iron Pipe, Thickness Design of		A21.1/1967/ (R1972)	None	WW/P/421c/1967	AWWA H1/67
7	Cast Iron Soil Pipe & Fitting Extra Heavy & Service Weights/Hub Spigot	A B C D3	See ASTM	A74/30	WW/P/401e/1974	None
8	Cast Iron Water Pipe (2 inches)	E F G	C600/80	A377/79	WW/P/360lb/1968	See ASTM
9	Cast Iron Water Pipe (Cast in Metal Molds)	E F G	C600/80	A377/79	WW/P/421c/1967	AWWA C106/75
10	Cast Iron Water Pipe (Cast in Sand-Lined Molds)	E F G	C600/80	A377/79	WW/P/421c/1967	AWWA C108/75
11	Cast Iron Water Pipe Fittings	E F G	A21.10/1971	A377/79	None	AWWA C110/77
12	Cast Iron Coupling (No Hub Sanitary Systems)	A B C D	None	None	None	IAPMO PS 11/77
13	Ductile Iron Pipe	A B C D E F G	C600/80	A377/79	WW/P/421c/1967	AWWA C151/76
14	Hubless Cast Iron Sanitary System with No Hub System Fittings	A B C D	None	None	WW/P/401e/1974	CISPI 310/78
15	Malleable Iron Screwed Fittings No. 150 Galvanized	F	B16.3/1977	None	WW/P/521f/1968	None
16	Nipples, Pipe, Threaded, Galvanized	F	None	None	WW/N/351lb (1)/1970	CS/5/65
17	Pipe Fittings, Ferrous (Bushings, Plugs & Locknuts) Threaded 125 & 150lb, Galvanized	A F	B16.14/1977	None	WW/P/47lb/1970	None
18	Pipe Threads, Galvanized (Except Dry Seal)	A D3 F	B2.1/1968	None	None	H28/PtII/1966
19	Steel Pipe, Stainless	F	B36.19/76	A312/80b	None	None
20	Steel, Stainless, DWV Tubes	A	None	A651/79	None	None
21	Steel Pipe Welded or Seamless (For Coiling) Black or Galvanized (For Galvanized Only)	A F	See ASTM	A53/80	WW/P/47lb/1970 Int. Amend. 3/1971	None

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SECTION 890.TABLE D

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	ANSI	ASTM	STANDARDS FS	OTHER
	FERROUS PIPE, FITTINGS & VALVES					
22	Steel Pipe Welded or Seamless (Black or Galvanized)	Black D3 Galvanized A D3 F	See ASTM	A120/80	WW/P/404c(1)/1962	None
23	Steel Pipe (Cement/Mortar Lining & Reinforced Cement/Mortar Coating)	E G	A21.4/1980	None	SS/P/385a(1)/1968	AWWA C104/80
24	Steel Pipe (Coaltar Enamel or Cement Mortar Linings & Coaltar Enamel Coated and Wrapped)	E G	See Other	None	WW/P/1432/1970	AWWA C203/78
25	Unions, Pipe, Steel or Malleable Iron	A F	None	None	WW/U/531c/1965 WW/V/35a/1965 Int.	None
26	Valves, Ball	F	None	None	Amend. 2/1970	None
27	Valves, Cast Iron Gate, 125, 250lbs	E F G	A126/66	None	WW/V/58lb/1971	MSS/SP/70/1970
28	Valves, Cast Iron, Swing Check	F	None	None	None	MSS/SP/71/1970
	NON-FERROUS PIPE FITTINGS & VALVES					
29	Brass Tube, Seamless	A	See ASTM	B135/81	WW/T/791a/1971	None
30	Brass, Red, Seamless, Standard Sizes	A B C D E F G	See ASTM	B43/80	WW/P/351a/1963	None
31	Bronze Flanges & Flanged Fittings	A B C D E F G	B16.24/1979	None	None	None
32	Cast Bronze Fittings For Flared Copper Tubes	F-See 77 Ill. Adm. Code 890.640(F)	B16.26/1975	None	None	None
33	Cast Bronze Solder/Joint, Pressure Fittings	E F G	B16.18/1978	None	WW/T/00725/1967	None
34	Cast Bronze Solder/Joint, Drainage Fittings	A B C D	B16.23/1976	None	None	MSS/SP/74/1970
35	Copper Pipe, Seamless, Standard Sizes	A B C D E F G	See ASTM	B42/81	WW/P/377d/1962	None
36	Copper Pipe, Threadless	A B C D E F G	See ASTM	B302/81	WW/P/377d/1962	None
37	Copper Tube, Drainage DWV	A D3	See ASTM	B306/81	None	None
38	Copper Tube Seamless, Round, Type K L & M Only	M = Rstr. F	See ASTM	B75/81	WW/T/797c/1963	None
39	Copper Tube, Water, Seamless, Types K L M For Types K&L For Type M	A B D E F G A F	See ASTM	B88/81	WW/T/799d/1971	None
40	Copper & Copper Alloy Tube, Welded	A F	See ASTM	B587/80	None	None
41	Glass Pipe, Fittings & Compression Couplings (Prestressed, Low Expansion, Borosilicate)	A C	See ASTM	C601/80	DD/G/541/b	Chicago Bldg. Code Sec.82/21.1
42	Lead Pipe, Bends, & Traps	A C	None	None	WW/P/325a/1967	None
43	Pipe Fittings, Brass & Bronze, 125 & 250lbs, Cast or Wrought	F G	B16.15/1978	None	WW/P/460b/1967	None
44	Pipe Nipples: Brass & Copper	F G	None	None	None	CS/5/65

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NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	ANSI	ASTM	STANDARDS FS	OTHER
	NON-FERROUS PIPE, FITTINGS & VALVES					
45	Solder/Joint Fittings, Pressure, Copper Alloy	E F G	B16.22/1980	None	WW/T/00725/1967	None
46	Solder/Joint Fittings, Drainage Copper Alloy	A B D3	B16.29/1980	None	None	None
47	Unions, Brass or Bronze, 250lbs	F	None	None	WW/U/516a/1967	None
48	Valve, Ball, Copper Alloy	F	None	None	WW/V/35a/1965	MSS/SP/72/1970
	NON-METALLIC PIPE & FITTINGS					
49	Valves, Gate, Bronze, Threaded & Flanged	F	C500/80	None	WW/V/54c/1966 Int. Amend.1/1970	AWWA C500/80
50	Valves, Check, Angle & Globe, Bronze 125lbs, Screwed, Flanged or Solder	F	None	None	WW/V/51d/1967	None
51	Asbestos Cement Non-Pressure Sewer Pipe	B D1 D2	See ASTM	C428/80	SS/P/331c/1967	None
52	Asbestos, Cement Non-Pressure, Small Diameter Sewer Pipe (4 in., 5 in., 6 in.)	B D1 D2	See ASTM	C644/80	None	None
53	Asbestos Cement, Perforated Underdrain Pipe	D1 D2	See ASTM	C508/78a	SS/P/340b/1969	None
54	Asbestos Cement Pressure Pipe	E	C603/78	C296/78	SS/P/351c/1974	AWWA C603/78
55	Asbestos Cement Storm Drain Pipe	D1 D2	See ASTM	C663/79	None	None
56	Asbestos Cement Storm Drain Pipe	B D1 D2 G	See ASTM	C668/79	None	None
57	Bituminized Fiber Drain & Sewer Pipe, Homogeneous Wall	D1	See ASTM	D1861/79	SS/P/1540a/1969 Int. Amend 1/1970	None
58	Bituminized Fiber Drain & Sewer Pipe, Laminated Wall	D1	See ASTM	D1862/77	SS/P/1540a/1969	
59	Bituminized Fiber Pipe, Perforated For Septic Tank Disposal Fields, Homogeneous Wall	For disposal field only	See ASTM	D2312/77	SS/P/1540a/1969	None
60	Bituminized Fiber Pipe, Perforated, For Septic Tank Disposal Fields, Laminated Wall	For disposal field only	See ASTM	D2313/77	SS/P/1540a/1969	None
61	Clay Drain Tile, Specifications for	See ASTM	C4/62/(75)	SS/P/1299a/1968	None	
62	Clay Drain Tile, Perforated	D1	See ASTM	C498/75	SS/P/359b/1960	None
63	Clay Pipe, Standard & Extra Strength	D1	See ASTM	C700/78a	SS/P/361E	None
64	Clay Pipe, Perforated, Standard & Extra Strength	Standard/D1 Ex Strength/D1 D2	See ASTM	C700/78a	SS/P/361E	None
65	Concrete Drain Tile	D1	See ASTM	C412M/80	SS/P/361E	None
66	Concrete Pressure Pipe, Low Head, Reinforced	B D	C303/78	C361M/78	None	AWWA C303/78
67	Concrete Pipe, Perforated	D1	See ASTM	C444/80	None	None
68	Concrete Pipe (Sewer, Storm Drain & Culvert) Non-Reinforced	D1	See ASTM	C14/80	SS/P/371e/1968	None
69	Concrete Pipe, Pressure, Reinforced Concrete, Pretensioned Reinforcement (Steel Cylinder Type)	B D1 E	None	None	SS/P/381a(1)/1969	None

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NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	STANDARDS ANSI	ASTM	FS	OTHER
	FERROUS PIPE, FITTINGS & VALVES					
70	Concrete Pipe, Reinforced (Culvert, Storm Drain & Sewer)	B D1	See ASTM	C76/80	SS/P/375d/1970	None
71	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe, Scheds.40 & 80	A B C D E H	See ASTM	D1527/77	None	PS/18/69-NSF14
72	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe (SDR/PR & Class T)	E H	See ASTM	D2282/77	None	PS/19/69-NSF14
73	Socket-Type Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe Fittings, Schedule 40	D E H	See ASTM	D2468/80	None	NSF 14
74	Socket-Type Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe Fittings Schedule 80	D E H	See ASTM	D2469/76	None	NSF 14
75	Threaded Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe Fittings Schedule 80	E H	See ASTM	D2465/79	None	NSF 14
76	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe & Fittings (Building Sewer)	B	See ASTM	D2751/80 D2321/80	None	None
77	Acrylonitrile/Butadiene/Styrene (ABS) Plastic Drain, Waste & Vent Pipe & Fittings (Schedule 40)	A B C D	See ASTM	D2661/78	L/P/322a/1966	CS270/75-NSF 14
78	Solvent Cement for Acrylonitrile/Butadiene/Styrene (ABS) Plastic Pipe & Fittings	ABS Only	See ASTM	D2235/80	None	None
79	Polybutylene (PB) Tubing	E	None	D2666/75	None	AWWA 902/78
80	Polybutylene (PB) Pipe/SDR I.D.Base	E	None	D2662/78	None	NSF
81	Polybutylene (PB) Pipe/SDR O.D.Base	E	None	D3000/73	None	NSF
82	Polybutylene (PB)	E F G H	See ASTM	D3309/80a	None	NSF 14
83	Polyethylene (PE) Corrugated Tubing & Fittings	D1	See ASTM	F405/76b	None	None
84	Polyethylene (PE) Plastic Pipe, Schedules 40 & 80. Based on Outside Diameter	E	See ASTM	D2447/74	None	NSF 14 PS12/69
85	Polyethylene (PE) Plastic Pipe (SDR/PR) I.D. Base	E	See ASTM	D2239/74	L/P315a/1966 L/P/C0315b/1937	PS11/69 NSF 14
86	Butt Fusion Polyethylene (PE) Plastic Pipe Fittings, Sched. 40	E	See ASTM	D3261/78	None	None
87	Butt Fusion Polyethylene (PE) Plastic Pipe Fittings, Sched.80	E	See ASTM	D3261/78	None	None
88	Socket Fusion, Polyethylene (PE), Plastic Pipe Fittings, SDR 11	E	None	D2683/80	None	NSF
89	Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe	E	See ASTM	D3350/80	L/F/001546/1968	NSF 14
90	Polyethylene (PE) Plastic Tubing	E	None	D2737/74	None	NSF 14
91	Polypropylene (DWV)	Recommended for Chemical use only		D/2146		

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NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	STANDARDS ANSI	ASTM	FS	OTHER
	FERROUS PIPE, FITTINGS & VALVES					
92	Chlorinated (Polyvinyl Chloride) (PVC) Pipe, Tubings & Fittings	E F G H	See ASTM	D2846/80	None	NSF 14
93	Polyvinyl Chloride (PVC) Plastic Pipe Sched. 40, 80 and 120	A B C D E H	See ASTM	D1785/76	None	PS21/70 NSF 14
94	Polyvinyl Chloride (PVC) (DWV) Single Family Residence Only	A	See ASTM	D2949/78	None	None
95	Polyvinyl Chloride (PVC) Pipe & Fittings	D1	See ASTM	D2729/80	None	NSF
96	Polyvinyl Chloride (PVC) Tubing	E	See ASTM	D2740/80	None	NSF
97	Polyvinyl Chloride (PVC) Plastic Pipe SDR/PR	E H	See ASTM	D2241/80	None	NSF
98	Socket Type Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Sched. 40	E H	See ASTM	D2466/78	None	NSF 14
99	Socket Type Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Sched. 80	D E H	See ASTM	D2467/76a	None	NSF 14
100	Solvent Cements for Polyvinyl Chloride (PVC) Plastic Pipe & Fittings	E PVC Only	See ASTM	D/2564/80	None	None
101	Threaded Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Sched. 80	E H	See ASTM	D2464/76	None	NSF 14
102	Bell/End Polyvinyl Chloride (PVC) Pipe	E H	B72.20/1971	D2672/80	None	None
103	Polyvinyl Chloride (PVC) Plastic Line Couplings, Socket Type	A B C D E F H	See ASTM	D3036/73	None	NSF
104	Polyvinyl Chloride (PVC) Plastic Drain, Waste, & Vent Pipe & Fittings	A B C D	See ASTM	D2665/78	L/P320a/1966	NSF 14
105	Type PSP Polyvinyl Chloride (PVC) Sewer Pipe & Fittings (Bldg Sewer)	B	See ASTM	D3033/80 D2321/80	None	None
106	Type PSM PVC Sewer Pipe & Fittings (Building Sewer)	B	See ASTM	D2321/80 D3034/80	None	None
107	Styrene/Rubber Plastic Drain Pipe & Fittings	D1	See ASTM	D2852/77	None	None
108	Solvent Cement for Styrene Rubber Plastic Pipe & Fittings	Applies to 107 only	See ASTM	D3122/80	None	None
109	Elastomeric Seal for PVC	B	See ASTM	D3212/76	None	None
	PIPE JOINTING MATERIALS, GASKETS AND SUPPORTS					
110	Caulking, Lead Wood & Pig Lead		See ASTM	B29/79	QQ/C/40(2)/1970	None
111	Compression Joints for Vitrified Clay Bell & Spigot Pipe	B D1	See ASTM	C425/77	None	None
112	Compression Joints for Vitrified Clay Plan/End Pipe	B D1	See ASTM	C425/77	None	None

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SECTION 890.TABLE D

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	STANDARDS ANSI	ASTM	FS	OTHER
	FERROUS PIPE, FITTINGS & VALVES					
113	Flexible Elastomeric Joints Pressure/Non-Pressure		See ASTM	D3139/77 D3212/76	None TT/P/001536/(1968) Revision of HHC	None
114	Fixture Setting Compound		None	None	536a/1954	None
115	Non-Metallic Gaskets for Pipe Flanges		B16.21/1978	None	None	None
116	Rubber Gaskets for Cast Iron Soil Pipe & Fittings		None	C564/76	None	None
117	Rubber Gasket Joints for Cast Iron Pressure Pipe & Fittings		See Other	None	None	AWWA C111/80
118	Rubber Gaskets, Molded or Extruded for Concrete Non-Pressure Sewer Pipe		None	C443M/80	HH/G/160b/1968	None
119	Rubber Rings for Asbestos Cement Pipe		See ASTM	D1869/78	None	None
120	Rubber Gaskets, Sheet		See ASTM	D1330/78	None	None
121	Sealing Compound, Performed Plastic for Expansion Joints & Pipe Joints		None	None	SS/S/00210/(1965)	None
122	Sealing Compound, Sewer Bituminous, Two/Component, Mineral Filled, Cold Applied		None	None	SS/S/168(2)/1962	None
123	Pipe Hangers, Supports & Anchors		None	None	WW/H/171d/1970	None
	PLUMBING APPLIANCES & APPURTENANCES					
124	Dishwashing Machines, Commercial		ANSIUL921/80	None	SS/S/168(2)/1962	ASSE/1004
125	Dishwashing Machines, Household		ANSI1006/80	None	OO/D/431c(2)/1970	UL749/1971
126	Drinking Water Coolers, Self-Contained Mechanically Refrigerated		A112.11.1/73 UL 207/75	None	None	ARI/1010/73 UL430/1970
127	Food Waste Disposal Units, Household		ANSI1008/80	None	None	ASSE/1008
128	Food Waste Disposal Units, Commercial		ANSIUL430/79	None	None	ASSE/1009 UL560/1972
129	Home Laundry Equipment		ANSI1007/80	None	None	ASSE/1007
130	Tanks for Domestic Use, Porcelain Enamel		A112.19.4/77	None	None	CS115/60
131	Hot Water Dispenser, Household, Electric Storage		A1023/79	None	None	Sec ANSI
132	Water Heaters, Automatic Storage Type		Z21.10.1/74	None	None	None
133	Water Heaters, Circulating Tank		Z21.10/3/74	None	None	None
134	Water Heaters, Electric/Automatic		C72/1	None		W/H/1961.1/71
135	Water Heater Drain Valves 3-4 in.		None	None	None	ASSE/1005
136	Water Heater, Electric Storage Tank		None	None	W/H/196h/1971	UL174/1972
137	Water Heater, Instantaneous		None	None	WW/H/191b/1970	None

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

SECTION 890.TABLE D

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	STANDARDS ANSI	ASTM	FS	OTHER
	FERROUS PIPE, FITTINGS & VALVES					
138	Water Heater, Gas, Automatic	75,000 BTU per hour or less	Z21.10.1/74	None	None	None
	PLUMBING FIXTURES AND APPURTENANCES					
139	Accessories for Plumbing Fixtures		None	None	WW/P/541-8a/1974	None
140	Bathtubs		A112.19.1/73	None	WW/P/541-3a/1971	None
141	Bathtub Units, Gel/Coated, Glass/ Fiber Reinforced Polyester Resin		A124.1.1974	None	WW/P/541-3a/1971	None
142	Drinking Fountains		A112.11.1/73	None	WW/P/541-6a/1971	None
143	Fittings, Plumbing Fixtures, Finished & Rough Brass		A112.18.1M/79 A112.21.1/68	None	WW/P/541-ALL/1971	None
144	Floor Drains		R1974	None	None	None
145	Lavatories		None	None	WW/P/541-4a/1971	None
146	Lavatory, Cultured Marble		None	None	None	IAPMOPS18/66
147	Plumbing Fixture, General Specification		None	None	WW/P/541-GEN/1971	None
148	Plumbing Fixtures, Enameled Cast Iron		A112.19.1M/79	None	WW/P/541-3a&5a/71	CS 77/63
149	Plumbing Fixtures, Stainless Steel		A112.19.3-76	None	None	CS 243-62
150	Plumbing Fixtures, Staple Vitreous China		A112.19.2/73	None	WW/P/541-1a.2a,4a &6a/1971	CS 20/63
			Z/124.4/80 Tube Show. 124.1 124.2 Lav. Stool			
151	Plumbing Fixtures, Plastic		124.3 124.4	None	None	None
152	Plumbing Fixtures, Aluminum		None	None	FS/6a/71	None
153	Shower Baths, Heads & Water Control Valves		A1016/79	None	WW/P/541-7b/1974	See ANSI
154	Shower Receptors, Shower Enclosures & Metallic Bathtubs, Prefabricated		None	None	None	IAPMOPS11/39
155	Shower Receptor & Shower Stall Units Gel Coated, Glass Fiber Reinforced Polyester Resin		Z124.2/1980	None	None	None
156	Sinks, Kitchen & Service & Laundry Tub		A112.19.1/73	None	WW/P/541-5a/1971	None
157	Supports for Off-the-Floor Plumbing Fixtures for Public Use		A112.6.1/79	None	None	None
158	Urinals		A112.19.5/79	None	WW/P/541-2a/1971	None
159	Ballcock, W.C. Flush Tank		None	None	None	ASSE/1002
	BACKFLOW PREVENTERS					
160	Vacuum Breakers, Anti-Siphon		A112.1.1/71	None	None	ASSE/1001
161	Vacuum Breakers, Hose Connection		None	None	None	ASSE/1011

SECTION 890.TABLE D

NO.	MATERIAL/EQUIPMENT	FOR RESTRICTED USE (See Footnotes as indicated)	STANDARDS ANSI	ASTM	FS	OTHER
	FERROUS PIPE, FITTINGS & VALVES					
162	Double Check with Atmosphere Vent		None	None	None	ASSE/1012
163	Reduced Pressure Zone Device		None	None	None	ASSE/1013
164	Double Check Valve Assembly		None	None	None	ASSE/1015
165	Vacuum Breakers, Pressure Type		None	None	None	ASSE/1020
166	Sillcocks, Frost Proof, Anti-Siphon, Self-Draining		None A112.1.2/42	None	None	ASSE/1019/78
	MISCELLANEOUS					
167	Air Gap Standards		(R1979)	None	None	None
168	Arrestors, Water Hammer		A203/78	None	None	ASSE/1010/67
169	Enamel, Coal/Tar (Protective Coating)		None	None	None	AWWA/C203/78
170	Coating, Pipe, Thermoplastic Resin or Thermosetting, Epoxy		None	None	L/C/530B/1970	None
171	Connector, Water, Flexible Copper		None	None		PS/14/73
172	Clamps, Hose		None	None	WW/C/440B9a/1969	None
173	Copper, Sheet & Strip for Bldg. Construction		None	B270	None	None
174	Clay Pipe, Installation		A106.2/1972	C12/77	None	None
175	Clay Pipe, Testing		A106.5/1972	C301/79	None	None
176	Drain for Prefabricated & Precast Showers		None	None	None	IAPMO PS4/66
177	Drain, Roof		A112.21.2/71	None	None	None PDI G 101
178	Interceptors, Grease		None	None	None	IAPMO PS13/66
179	Lead, Sheet, Grade A		None	None	QQ/L/201f(2)/1970	None
180	Plugs, Brass Cleanout		None	None	None	CS 188-66
181	Relief Valves, Automatic		Z21.22/1974	None	None	AGA approved
182	Reducing Valves, Water Pressure for Domestic Water Supply System		A1003 & 1003.1/70	None	None	See ANSI
183	Solder, Soft	Min. of 95-5	None	None	QQ/S/571d/1963	None
184	Tape, Pipe Coating, Pressure Sensitive Polyethylene		None	None	L/T/0075(1)/1966	None
185	Tee, Diversion & Twin Waste Elbow		None	None	None	IAPMO PS/9/66
186	Valve, Backwater		A112.14.1/75	None	None	IAPMO PS58/66
187	Valve, Drain, Water Heater 3/4 in.		None	None	None	ASSE/1005
188	Valve, Shower, Anti-Scald Type		None	None	None	ASSE/1016/79
189	Trap Seal Primer Valve		None	None	None	ASSE/1018/78

SECTION 890.TABLE D

FOOTNOTES:

A. Drain, Waste and Vent System above ground or basement inside a building.

B. Drainage System below ground outside a building (building sewer).

C. Drain, Waste and Vent System Below ground or basement inside a building (building drain).

D. Underground Storm and Sub-soil Drain System (inside and outside building).

1. Outside underground
2. Inside underground
3. Above ground

E. Water Service Pipe

F. Water Distribution System above ground or basement

G. Water Distribution System below ground or basement.

H. Cold Water Distribution System only for above and below ground or basement. Minimum pressure rating 160 psi at 73.4°F.

NOTE: All water service and water distribution piping above and below ground shall be 160 psi minimum at 73.4°F.

Section 890.TABLE E Size of Cleanouts

PIPE SIZE, IN.	MINIMUM SIZE OF CLEANOUT PLUG I.P.S.
1-¼	1-¼
1-½	1-½
2	1-½
2-½	2
3	2-½
4	3-½
5	4
6	5
8	6
10	6
12	6
15	6

SECTION 890. TABLE F

MINIMUM NUMBER OF PLUMBING FIXTURES[1]

TYPE OF BUILDING	Dwellings[5] One & Two Family	Dwellings-Multiple or Apartment	Transient facilities Hotels - Motels with Private Rooms
WATER CLOSETS	1 for each dwelling unit	1 for each dwelling unit	1
URINALS			
LAVATORIES[3]	1 for each dwelling unit	1 for each dwelling unit	1
BATHTUBS, SHOWERS	1 for each dwelling unit	1 for each dwelling unit	1
DRINKING FOUNTAINS[4]			
OTHER FIXTURES	Kitchen sink for each dwelling unit. Either a laundry tray or water & waste connections for a clothes washing machine in each dwelling unit.	Kitchen sink for each dwelling unit or apartment. For apartments or multiple dwelling units, 1 double laundry tray for each 10 units or 1 automatic laundry washing machine for each 10 units.	

TYPE OF BUILDING	Public and Service Areas	Residential Building	Rooming House with Private Bath
WATER CLOSETS	Male 1-10 Female 1-8	Male 1-25 Female 1-25	1
URINALS	Male ONLY 1 for each 25 up to 100, then 1 for each add. 50		
LAVATORIES[3]	Male 1-10 Female 1-10	Male 1-25 Female 1-25	1
BATHTUBS, SHOWERS	Male 1-10 Female 1-10	Male 1-25 Female 1-25	1
DRINKING FOUNTAINS[4]	1-75		
OTHER FIXTURES			

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SECTION 890. TABLE F

MINIMUM NUMBER OF PLUMBING FIXTURES[1]

TYPE OF BUILDING	Dormitories[6]	Assembly - Places of Worship	Assembly - Other than places of worship, (auditoriums, convention halls, theaters, malls, mercantile units, gyms)
WATER CLOSETS	Male: 1 for each 10 persons Female: 1 for each 8 persons Over 10 persons, add 1 fixture for each 25 additional males & 1 for each 20 additional females	No. of Persons / No. of Fixtures 150 Females / 1 300 Males / 1 M F 1-400 / 1 1 See Footnote 5	No. of Persons / No. of Fixtures Male Female 1-100 / 1 1 101-200 / 2 2 201-400 / 3 3 Over 400, add 1 fixture for each additional 500 men; add 1 for each 300 women
URINALS	1 for each 25 men. Over 150 persons, add 1 fixture for each additional 50 men Over 400 Add 2 fixtures for each additional 400 See Footnote 5	No. of Persons / No. of Fixtures 300 Males / 1 See Footnote 5	No. of Persons / No. of Fixtures 1-200 / 1 201-400 / 2 401-600 / 3 Over 600; add 1 fixture for each 300 men See Footnote 5
LAVATORIES[3]	1 for each 12 persons (Separate dental lavatories should be provided 1 for each 50 persons is recommended) Add 1 lavatory for each 15 females.	1 each sex	No. of Persons / No. of Fixtures Male Female 1-200 / 1 1 201-400 / 2 2 401-750 / 3 3 Over 750, add 1 fixture for each 500 persons
BATHTUBS, SHOWERS	1 for each 8 persons. In the case of women's dormitories, additional bathtubs should be installed at the ratio of 1 for each 30 females.		
DRINKING FOUNTAINS[4]	1 for each 75 persons	1	1 per 100 1 for first 100; 1 for each additional 200; over 700 add 1 for each additional 1000
OTHER FIXTURES	Laundry tray 1 for each 5 persons. Slop sinks, 1 for each 100 persons.		1 Slop Sink

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SECTION 890. TABLE F

MINIMUM NUMBER OF PLUMBING FIXTURES[1]

TYPE OF BUILDING	Office or Public Building[8]	Theatres, Auditoriums
WATER CLOSETS	Separate Toilet Facilities for Male and Females No. of Persons / No. of Fixtures 1-15 / 1 16-35 / 2 36-55 / 3 56-80 / 4 81-110 / 5 111-150 / 6 1 fixture for each 40 additional persons	Separate Toilet Facilities for Males and Females No. of Persons / No. of Fixtures Male Female 1-100 / 1 1 101-200 / 2 2 201-400 / 3 3 Over 400, add 1 fixture for each 500 males and 1 for each 300 females.
URINALS	Wherever urinals are provided, one closet less specified may be provided for each urinal installed except that the number of water closets in such cases shall not be reduced to less than 2/3 of the minimum specified.	No. of Persons (Male) / No. of Fixtures 1-200 / 1 201-400 / 2 401-600 / 3 Over 600, add 1 for each additional 300 males. See Footnote 5
LAVATORIES[3]	No. of Persons / No. of Fixtures 1-15 / 1 16-35 / 2 36-60 / 3 61-90 / 4 91-125 / 5 1 fixture for each 45 additional persons	No. of Persons / No. of Fixtures 1-200 / 1 201-400 / 2 401-750 / 3 Over 750, add 1 for each additional 500 persons
BATHTUBS, SHOWERS		
DRINKING FOUNTAINS[4]	1 for each 75 persons	1 for first 100; 1 for each additional 200; over 700 add 1 for each additional 1000.
OTHER FIXTURES		

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SECTION 890. TABLE F

MINIMUM NUMBER OF PLUMBING FIXTURES[1]

TYPE OF BUILDING	Restaurants[6]	Institutional—Other than hospitals or penal institutions (on each occupied story)	Penal Institutions, Prisons
WATER CLOSETS	No. of Persons: 1-50, 51-100, 101-200, 201-500 No. of Fixtures Male: 1, 2, 3, 4 No. of Fixtures Female: 1, 2, 3, 4	1 for each 25 men; 1 for each 20 women	1 in each cell; 1 in each exercise room
URINALS	No. of Persons: 1-100, 101-200, 201-500 No. of Fixtures: 1, 2, 3	1 for each 50 men	1 in each exercise room
LAVATORIES[3]	No. of Persons: 1-50, 51-100, 101-200, 201-500 No. of Fixtures Male: 1, 2, 3, 4 No. of Fixtures Female: 1, 2, 3, 4	1 for each 10 persons	1 in each cell; 1 in each exercise room
BATHTUBS, SHOWERS		1 for each 10 persons	1 on each cell block floor
DRINKING FOUNTAINS[4]	No. of Persons: 1-100, 101-200, 201-500 No. of Fixtures: 1, 2, 3++ ++See Footnote 7	1 for each 50 persons	1 on each cell block floor; 1 in each exercise area
OTHER FIXTURES	As required by the Illinois Sanitation Rules & Regulations (Latest Edition)		1 Slop Sink per Floor

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SECTION 890. TABLE F

MINIMUM NUMBER OF PLUMBING FIXTURES[1]

TYPE OF BUILDING	Rooming House without Private Bath	Schools (Elementary through Secondary level)	Schools of Higher Education & Similar Educational Facilities
WATER CLOSETS	Separate Toilet Facilities for Male: 1-10: 1 for; add. 25: 1 for Female: 1-8: 1 for; add. 20: 1 for	Separate Toilet Facilities for Male: 1-50 Female: 1-25	Separate Toilet Facilities for Male: 1-50 Female: 1-25
URINALS	Same as for Hotel-Motel See Footnote 5	1-30 Males	Whenever urinals are provided, one water closet less than the number specified may be provided for each urinal installed except that the number of water closets in such cases shall not be reduced to less than 2/3 of the minimum specified.
LAVATORIES[3]	Same as for Hotel-Motel Male: 1-10: 1 for; add. 25: 1 for Female: 1-8: 1 for; add. 20: 1 for	1-50	1-50
BATHTUBS, SHOWERS	Same as for Hotel-Motel Male: 1-10: 1 for; add. 25: 1 for Female: 1-8: 1 for; add. 20: 1 for		
DRINKING FOUNTAINS[4]		1-75	1-75
OTHER FIXTURES			

SECTION 890. TABLE F

MINIMUM NUMBER OF PLUMBING FIXTURES[1]

TYPE OF BUILDING	Hospitals: Individual Room	Hospitals: Wards	Hospitals: Waiting Rooms
WATER CLOSETS	1	1 for each 8 patients	1
URINALS			
LAVATORIES[3]	1	1 for each 10 patients	1
BATHTUBS, SHOWERS	1	1 for each 20 patients	
DRINKING FOUNTAINS[4]		1 for each 100 patients	
OTHER FIXTURES	One Slop Sink per Floor		

TYPE OF BUILDING	Manufacturing, warehouse, workshops, loft buildings, foundries, and similar industrial establishments
CONSULT UNITED STATES DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS	

FOOTNOTES FOR SECTION 890. TABLE F

1. The figures shown are based upon the fixture being the minimum required for the number of persons indicated or any fraction thereof.
2. Building categories not shown on this table will be considered separately by the Department.
3. 18 lineal inches of wash sink or 18 inches of a circular basin, when provided with water outlets for such space, shall be considered equivalent to 1 lavatory.
4. Drinking fountains shall not be installed in conjunction with, or connected to a handwashing lavatory.
5. Urinals may be substituted for water closets for males, not to exceed 1/3 of the required total number of water closets.
6. A restaurant is defined as a business which sells food or beverages, normally consumed on the premises. See Footnote 8.
   (b) The number of occupants for a drive-in restaurant shall be considered as equal to the number of parking stalls.
   (c) Employee toilet facilities are not included in the above restaurant recommendations. Handwashing facilities must be available in the kitchen for employees.
7. Where food is consumed indoors, water stations may be substituted for drinking fountains.
8. Customer facilities. Facilities for customers shall not be required in stores of less than 3000 square feet net area ($465m^2$).

* Occupancy is the purpose for which a building, or part thereof, is used or intended to be used.

Section 890.TABLE G Minimum Air Gaps for Plumbing Fixtures

Fixture	Minimum air gap: When not affected by near wall[1] (inches)	Minimum air gap: When affected by near wall[2] (inches)
Lavatories and other fixtures with effective opening not greater than ½ inch diameter.	1	1-½
Sink, laundry trays, goose neck bath faucets and other fixtures with effective openings not greater than ¾ inch diameter.	1-½	2-¼
Over rim bath fillers and other fixtures with effective openings not greater than one inch diameter.	2	3
Drinking water fountains—single orifice not greater than 7/16 (0.437) inch diameter or multiple orifices having total area of 0.150 square inches (are of circle 7/16 inch diameter.	1	1-½
Effective openings greater than one inch.	2 X Diameter of effective opening	3 X Diameter of effective opening

[1] Side walls, ribs or similar obstructions do not affect air gaps when spaced from inside edge of spout opening a distance greater than three times the diameter of the effective opening for a single wall, or a distance greater than four times the diameter of the effective opening for two intersecting walls.

[2] Vertical walls, ribs or similar obstructions extending from the water surface to or above the horizontal plane of the spout opening require a greater air gap when spaced closer to the nearest inside edge of spout opening than specified in [1], above. The effect of three or more such vertical walls or ribs has not been determined. In such cases, the air gap shall be measured from the top of the wall.

The minimum air gap shall be measured vertically from the lowest end of a potable water outlet to the flood rim of the fixture or receptacle into which it discharges. The minimum air gap shall be two (2) pipe diameters of the supply inlets, but in no case shall the air gap be less than one (1) inch.

Section 890.TABLE H Demand Load

Type of Fixture or Device See [1] & [2]	Pipe Size (inches)
Bathtubs	½
Combination sink and tray	½
Drinking fountain	⅜
Dishwasher (domestic)	½
Kitchen sink (residential)	½
Kitchen sink (commercial)	¾
Lavatory	⅜
Laundry tray (1, 2 or 3 compartment)	½
Shower (single head)	½
Sinks (service, slop)	½
Sinks (flusing rim)	¾
Urinal (flush tank)	½
Urinal (direct flush valve)	¾
Urinal (siphon jet)	1
Washing machine (automatic)	½
Water closet (tank type)	⅜
Water closet (flush valve type)	1
Hose bibbs	½
Wall hydrant	½

[1] For fixtures not listed, the minimum supply branch shall be installed in the same diameter as required for similar type fixtures.

[2] The fixture supply pipe shall be extended to within twelve (12) inches of the point of connection to fixture and be within the same area and physical space as the point of connection to the fixture.

Section 890.TABLE I Drainage Fixture Units (DFU) Per Fixture Group

Type of Fixture	DFU/Drainage Units - Load Factors	Minimum Size of trap[2] (inches)
Bathroom group consisting of one (1) tank water closet, one (1) lavatory with 1 ¼ inch trap and one (1) bathtub[1] or shower stall	7	
water closet with flush valve, lavatory with 1 ¼ inch trap and bathtub[1] or shower	11	
Bathtub[2] (with or without overhead shower)	2	1-½
Bathtub[1]	3	2
Bidet	2 Nominal	1-½
Clothes washer, automatic	3	2
Combination sink and tray	3	1-½
Combination sink and tray with food-disposal unit	4 Separate Traps	1-½
Dental unit or cuspidor	1	1-¼
Dental lavatory	1	1-¼
Drinking fountain	½	1
Dishwasher[2], domestic	2	1-½
Floor drains See Section 890 Table 1		2
Kitchen sink, domestic	2	1-½
Kitchen sink, domestic, with food-waste grinder	3 Separate Traps	1-½
Lavatory	1 Sm. P.O.	1-¼
Lavatory	2 Lg. P.O.	1-½
Lavatory, barber, beauty parlor	2	1-½
Lavatory, surgeon's	2	1-½
Laundry tray (1 or 2 compartments)	2	1-½
Shower stall	3	2
Showers (group) per head[2]	3	

Type of Fixture	DFU/Drainage Units - Load Factors	Minimum Size of trap[2] (inches)
Sinks:		
Surgeon's	3	1-½
Flushing rim (with valve)	8	3
Service (P trap)	3	3
Service (P trap)	2	2
Pot, scullery, etc.[2]	4	1-½
Urinal, Pedestal, siphon jet, blowout	8 Nominal	2
Urinal, wall integral trap	4	2
Urinal, wall P-trap, exposed	4	1-½
Urinal stall	4	2
Urinal trough[2] (each 18" section)	2	1-½
Wash sink[2] (circular of multiple) each set of faucets	2 Nominal	1-½
Water closet:		
Tank-operated	4 Nominal	3
Valve-operated	8	3

[1] A shower head over a bathtub does not increase the fixture value.

[2] See Exhibit G:Table I and Section 890.1740(c) for method of computing unit values of fixtures not listed in this Table or for rating of devices with intermittent flows.

Section 890.TABLE J Fixtures Not Listed in Table I

Fixture Drain or Trap Size	Drainage Fixture Unit Value (DFU)
1-¼ inches and smaller	1
1-½ inches	2
2 inches	3
2-½ inches	4
3 inches	5
4 inches	6

Section 890.TABLE K Building Drains

Maximum Number of Drainage Fixture Units (DFU) That may be Connected to any Portion[1] of the Building Drain

Diameter of Pipe (inches)	Fall per Foot			
	1/16 Inch	⅛ Inch	¼ Inch	½ Inch
2	—-	—-	21	26
2-½	—-	—-	24	31
3	—-		27[2]	36[2]
4	—-	180	216	250
5	—-	390	480	575
6	—-	700	840	1,000
8	1,400	1,600	1,920	2,300
10	2,500	2,900	3,500	4,200
12	3,900	4,600	5,600	6,700
15	7,000	8,300	10,000	12,000

[1] Includes branches of the building drain.

[2] Not over two water closets.

Section 890.TABLE L Horizontal Fixture Branches and Stacks

Maximum Number of Drainage Fixtures Units (DFU) That May be Connected to:

Diameter of pipe (inches)	Any Horizontal[1] Fixture Branch	One Stack of 3 Stories in Height or 3 Intervals	More than 3 Stories in Height: Total for Stack	More than 3 Stories in Height: Total at One Story or Branch Interval
1-¼	1	2	2	1
1-½	3	4	8	2
2	6	10	24	6
2-½	12	20	42	9
3	20[2]	30[2]	60[2]	16[2]
4	100	240	500	90
5	360	540	1,100	200
6	620	960	1,900	350
8	1,400	2,200	3,600	600
10	2,500	3,800	5,600	1,500
12	3,900	6,000	8,400	1,500
15	7,000	—-	—-	—-

[1] Does not include branches of the building drain.

[2] Not over two water closets.

[3] Not over six water closets, or more than two per branch interval or per floor.

Section 890.TABLE M Distance of Fixture Trap From Vent

Size of Fixture Drain (Inches)	Distance of Trap to Vent
1-¼	2 ft. 6 in.
1-½	3 ft. 6 in.
2	4 ft. 0 in.
3	5 ft. 0 in.
4 and larger	6 ft. 0 in.

Section 890.TABLE N Size of Vent Stacks

Number of Bathroom Groups	Diameter of Vent Stacks (Inches)
1 or 2	2
3 to 9	3
10 to 16	4

Section 890.TABLE O Size and Length of Vents

Size of soil or waste stack	Fixture Units Connected	Diameter of Vent Required (Inches)								
		1-¼	1-½	2	2-½	3	4	5	6	8
		Maximum Length of Vent (Feet)								
1-¼	2	30								
1-½	8	50	150							
1-½	10	30	100							
2	12	30	75	200						
2	20	26	50	150						
2-½	42		30	100	300					
3	10		30	100	200	600				
3	30			60	200	500				
3	60			50	80	400				
4	100			35	100	260	1,000			
4	200			30	90	250	900			
4	500			20	70	180	700			
5	200				35	80	350	1,000		
5	500				30	70	300	900		
5	1,100				20	50	200	700		
6	350				25	50	200	400	1,300	
6	620				15	30	125	300	1,100	
6	960					24	100	250	1,000	
6	1,900					20	70	200	700	
8	600						50	150	500	1,300
8	1,400						40	100	400	1,200
8	2,200						30	80	350	1,100
9	3,600						25	60	250	800
10	1,000							75	125	1,000
10	2,500							50	100	500
10	3,800							30	80	350
10	5,600							25	60	250

Section 890.TABLE P Horizontal Ciruit and Loop Vent Sizing Table

Line	Soil or waste pipe diam. (in.)	Fixture Units (max. number)	Diameter of circuit or loop vent (in.)					
			1-½	2	2-½	3	4	5
			Max. Horizontal length (ft.)					
1	1-½	10	20					
2	2	12	15	40				
3	2	20	10	30				
4	3	10		20	40	100		
5	3	30			40	100		
6	3	60			16	80		
7	4	100		7	20	52	200	
8	4	200		6	18	50	180	
9	4	500			14	36	140	
10	5	200				16	70	200
11	5	1,100				10	40	140

Section 890. TABLE Q Size of Openings & Maximum Number of Discharge Openings

Size of Pipe (Inches)	Size of Openings & Maximum Number of Discharge Openings									
	3/8 Inch	1/2 Inch	3/4 Inch	1 Inch	1¼ Inch	1½ Inch	2 Inch	2½ Inch	3 Inch	4 Inch
3/8	1									
1/2	3	2								
3/4	12	7	2							
1 inch	28	16	7	2						
1¼	55	31	13	6	2					
1½	80	45	24	11	7	2				
2 inch	142	80	35	26	18	8	2			
2½	223	125	55	31	20	13	7	2		
3 inch	321	181	80	45	28	20	11	6	2	
4 inch	570	222	141	80	51	35	20	12	8	2

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

1) Heading of the Part:

Illinois Plumbing Code

2) Code Citation:

77 Ill. Adm. Code 890

3)

Section Numbers:	Proposed Action:
890.110	New Section
890.120	New Section
890.130	New Section
890.140	New Section
890.150	New Section
890.160	New Section
890.170	New Section
890.180	New Section
890.190	New Section
890.200	New Section
890.210	New Section
890.220	New Section
890.230	New Section
890.310	New Section
890.320	New Section
890.330	New Section
890.340	New Section
890.350	New Section
890.360	New Section
890.370	New Section
890.380	New Section
890.410	New Section
890.420	New Section
890.430	New Section
890.440	New Section
890.510	New Section
890.520	New Section
890.530	New Section
890.540	New Section
890.550	New Section
890.610	New Section
890.620	New Section
890.630	New Section
890.640	New Section

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890.650	New Section
890.660	New Section
890.670	New Section
890.680	New Section
890.690	New Section
890.700	New Section
890.710	New Section
890.720	New Section
890.730	New Section
890.740	New Section
890.750	New Section
890.760	New Section
890.770	New Section
890.780	New Section
890.790	New Section
890.800	New Section
890.810	New Section
890.910	New Section
890.920	New Section
890.930	New Section
890.1010	New Section
890.1020	New Section
890.1030	New Section
890.1040	New Section
890.1050	New Section
890.1060	New Section
890.1110	New Section
890.1120	New Section
890.1130	New Section
890.1140	New Section
890.1150	New Section
890.1160	New Section
890.1170	New Section
890.1180	New Section
890.1190	New Section
890.1200	New Section
890.1210	New Section
890.1220	New Section
890.1230	New Section
890.1240	New Section
890.1310	New Section
890.1320	New Section
890.1330	New Section
890.1340	New Section

890.1350	New Section
890.1360	New Section
890.1370	New Section
890.1380	New Section
890.1410	New Section
890.1420	New Section
890.1430	New Section
890.1440	New Section
890.1450	New Section
890.1460	New Section
890.1470	New Section
890.1480	New Section
890.1490	New Section
890.1500	New Section
890.1510	New Section
890.1520	New Section
890.1530	New Section
890.1540	New Section
890.1550	New Section
890.1560	New Section
890.1570	New Section
890.1580	New Section
890.1590	New Section
890.1600	New Section
890.1710	New Section
890.1720	New Section
890.1730	New Section
890.1740	New Section
890.1750	New Section
890.1760	New Section
890.1770	New Section
890.1780	New Section
890.1790	New Section
890.1800	New Section
890.1910	New Section
890.1920	New Section
890.1930	New Section
890.1940	New Section
890.1950	New Section
890.Appendix A	
Table A1	New Section
Table A2	New Section
Table A3	New Section
Table A4	New Section

Table A5	New Section
Table A6	New Section
Table A7	New Section
Table B	New Section
Table C	New Section
Table D	New Section
Table E	New Section
Table F	New Section
Table G	New Section
Table H	New Section
Table I	New Section
Table J	New Section
Table K	New Section
Table L	New Section
Table M	New Section
Table N	New Section
Table O	New Section
Table P	New Section
Table Q	New Section
890.Appendix B	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
Illustration G	New Section
Illustration H	New Section
Illustration I	New Section
Illustration J	New Section
Illustration K	New Section
Illustration L	New Section
Illustration M	New Section
Illustration N	New Section
Illustration O	New Section
Illustration P	New Section
Illustration Q	New Section
Illustration R	New Section
Illustration S	New Section
Illustration T	New Section
Illustration U	New Section
Illustration V	New Section
Illustration W	New Section
Illustrastion X	New Section

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Illustration Y	New Section
Illustration Z	New Section
Illustration AA	New Section
890.Appendix C	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
890.Appendix D	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
Illustration G	New Section
Illustration H	New Section
890.Appendix E	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
890.Appendix F	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
890.Appendix G	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
890.Appendix H	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
890.Appendix I	New Section

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Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
Illustration G	New Section
Illustration H	New Section
Illustration I	New Section
Illustration J	New Section
Illustration K	New Section
Illustration L	New Section
Illustration M	New Section
Illustration N	New Section
Illustration O	New Section
890.Appendix J	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
Illustration G	New Section
Illustration H	New Section
Illustration I	New Section
Illustration J	New Section
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890.Appendix K	New Section
Illustration A	New Section
Illustration B	New Section
Illustration C	New Section
Illustration D	New Section
Illustration E	New Section
Illustration F	New Section
Illustration G	New Section
Illustration H	New Section
Illustration I	New Section
Illustration J	New Section
Illustration K	New Section
Illustration L	New Section
Illustration M	New Section
Illustration N	New Section
Illustration O	New Section

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Illustration P	New Section
Illustration Q	New Section
Illustration R	New Section
Illustration S	New Section
Illustration T	New Section
Illustration U	New Section
Illustration V	New Section
Illustration W	New Section
Illustration X	New Section
Illustration Y	New Section
Illustration Z	New Section
Illustration AA	New Section
Illustration BB	New Section
Illustration CC	New Section
Illustration DD	New Section
Illustration EE	New Section
Illustration FF	New Section
Illustration GG	New Section

4) Statutory Authority:

Implementing and authorized by Section 35 of the Illinois Plumbing License Law (Ill. Rev. Stat. 1991, ch. 111, par. 1133)

5) A Complete Description of the Subjects and Issues Involved:

This rulemaking is a comprehensive revision of the minimum requirements for plumbing systems and will replace the Department's current plumbing requirements, which are being repealed from Part 890 in this issue of the Illinois Register. The rulemaking modifies several existing definitions and includes new definitions for types of backflow preventers, levels of toxicity, and terms including "contaminant", "sub-soil drainage", "cross-connection control device inspector", and "combination waste and vent system". A new section has been added specifying the required connections for water distribution, drainage, and vent lines for use with kidney dialysis machines. Requirements for the sizing of cleanouts have been modified. The rulemaking includes provisions for the installation of yard hydrants on potable or non-potable water distribution lines, and the installation of dual check valves on fire safety systems having less than five sprinkler heads. A minimum depth of 36 inches below ground level is established for the installation of underground water service pipe. Water heaters conforming to the water supply quality and safety precautions of ANSI standard Z.21.10 1-a (1988) are allowed for use in hot water supply and space heating.

Provisions specifying the minimum number of plumbing fixtures required in various types of buildings have been revised. Exemptions from requirements for restrooms and drinking fountains for certain types and sizes of businesses have been provide. The rulemaking also includes provisions for fiberglass showers in single family residences, drainage in public shower rooms,

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temporary sanitary facilities for workers and for the public at special events, and water closet seats with closed fronts that are encased in a continuous plastic sleeve capable of providing a clean surface for each user.

In addition, the rulemaking includes tables specifying approved plumbing materials, draining and vent systems, water appliances, appurtenances, and devices, and water distribution joints and connections. The table specifying the minimum number of plumbing fixtures based on building occupancy has been modified with regard to the number of plumbing fixtures for female occupants and new types of building occupancies. Several illustrations have been revised to reflect modifications to the related requirement.

6) Will this Rulemaking Replace an Emergency Rule Currently in Effect?

Yes __ No X

7) Does this Rulemaking Contain an Automatic Repeal Date? Yes __ No X

If "yes," please specify the date: _____

8) Does this Rulemaking Contain Any Incorporations By Reference?

Yes X No __

If "yes," please specify type: 6.02(a) X or 6.02(b)__

9) Are there any other Proposed Amendments Pending on this Part?

Yes __ No X

If Yes:

Section Numbers	Proposed Action	Ill. Reg. Citation

10) Statement of Statewide Policy Objectives:

Added measures are taken to insure clarification of rules, references made clear and tables are simplified to enable user to identify with intent of the code. This rulemaking will not create or expand a mandate on units of local government.

11) Time, Place, and Manner in which Interested Persons May Comment on this Rulemaking:

Interested persons may present their comments concerning these rules by writing to Gail M. DeVito, Division of Governmental Affairs, Illinois Department of Public Health,

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

525 West Jefferson, Second Floor, Springfield, Illinois 62761, within 45 days after this issue of the Illinois Register.

A public hearing to gather public comments on the proposed rules will be held on December 18, 1992, 10:30 a.m. - 12:30 p.m., Illinois Department of Public Health, 1st Floor Training Room, 525 West Jefferson, Springfield, Illinois 62761.

Persons presenting oral testimony should provide to the hearing officer at the time of the public hearing a written copy of such testimony. No oral testimony will be accepted without a written copy of the testimony being provided.

These rules may have an impact on small businesses. In accordance with Sections 3.01 and 4.03 of the Illinois Administrative Procedure Act, any small business may present their comments in writing to Gail M. DeVito at the above address.

Any small business (as defined in Section 3.10 of the Illinois Administrative Procedure Act) commenting on these rules shall indicate their status as such, in writing, in their comments.

12) Initial Regulatory Flexibility Analysis:

A) Date Rulemaking was Submitted to the Business Assistance Office of the Department of Commerce and Community Affairs:

B) Type of Small Businesses Affected:

Plumbers and Plumbing Contractors.

C) Reporting, Bookkeeping or Other Procedures Required for Compliance:

No new procedures required.

D) Types of Professional Skills Necessary for Compliance:

Technical.

The full text of the Proposed Rules begins on the next page:

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

TITLE 77: Public Health
CHAPTER I: Department of Public Health
SUBCHAPTER r: Water and Sewage

PART 890
ILLINOIS PLUMBING CODE

SUBPART A: DEFINITIONS AND GENERAL REGULATIONS

Section
890.110 General Regulations
890.120 Definitions
890.130 Incorporation by Reference
890.140 Repairs and Alterations
890.150 Workmanship
890.160 Used Plumbing Material, Equipment, Fixtures
890.170 Sewer and/or Water Required
890.180 Sewer and Water Pipe Installation
890.190 Piping Measurements
890.200 Operation of Plumbing Equipment

SUBPART B: PLUMBING MATERIALS

Section
890.210 Materials
890.220 Identification
890.230 Safe Pan Material

SUBPART C: JOINTS AND CONNECTIONS

Section
890.310 Tightness
890.320 Types of Joints
890.330 Special Joints
890.340 Use of Joints
890.350 Unions
890.360 Water Closet and Pedestal Urinal
890.370 Prohibited Joints and Connections in Drainage Systems
890.380 Increasers and Reducers

SUBPART D: TRAPS AND CLEANOUTS

Section
890.410 Traps
890.420 Pipe Cleanouts
890.430 Cleanout Equivalent

DEPARTMENT OF PUBLIC HEALTH

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890.440 Acid-Proof Traps

SUBPART E: INTERCEPTORS-SEPARATORS AND BACKWATER VALVES

Section
890.510 Grease Interceptor Requirements
890.520 Gasoline, Oil and Flammable Liquids
890.530 Sand, Bottle and Slaughter Houses
890.540 Laundries
890.550 Backwater Valves - Sanitary System and Storm System

SUBPART F: PLUMBING FIXTURES

Section
890.610 General Requirements - Material and Design
890.620 Overflows
890.630 Installation
890.640 Prohibited Fixtures
890.650 Water Closets
890.660 Urinals
890.670 Strainers and Fixture Outlets
890.680 Lavatories
890.690 Shower Receptors and Compartments
890.700 Sinks
890.710 Food Waste Disposal Units
890.720 Drinking Fountains
890.730 Floor Drains
890.740 Kidney Dialysis Machines
890.750 Whirlpool Bathtubs
890.760 Pressure Type Water Treatment Units
890.770 Dishwashing Machines
890.780 Garbage Can Washers
890.790 Laundry Trays and Drains
890.800 Special Fixtures and/or Items Designed For A Particular Purpose
890.810 Minimum Number of Plumbing Fixtures

SUBPART G: HANGERS, ANCHORS AND SUPPORTS

Section
890.910 Hangers, Anchors and Supports
890.920 Vertical Piping
890.930 Horizontal Piping

SUBPART H: INDIRECT WASTE PIPING, SPECIAL WASTE

Section
890.1010 Indirect Waste Piping
890.1020 Material and Size

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890.1030 Length and Grade
890.1040 Air Gaps
890.1050 Receptors
890.1060 Special Wastes and Chemical Wastes

SUBPART I: WATER SUPPLY AND DISTRIBUTION

Section
890.1110 Quality of Water Supply
890.1120 Color Code
890.1130 Protection of Potable Water
890.1140 Special Applications and Installations
890.1150 Water Service Pipe Installation
890.1160 Water Pumping and Storage Equipment
890.1170 Water Supply Tanks and Auxiliary Pressure Tanks
890.1180 Disinfection of Potable Water System
890.1190 Water Supply Control Valves and Meter
890.1200 Water Service Sizing
890.1210 Design of a Building Water Distribution System
890.1220 Hot Water Supply and Distribution
890.1230 Safety Devices
890.1240 Miscellaneous

SUBPART J: DRAINAGE SYSTEM

Section
890.1310 Materials
890.1320 Drainage System Installation
890.1330 Drainage Fixture Units (D.F.U.)
890.1340 Determination of Sizes for Drainage System
890.1350 Offsets in Drainage Piping
890.1360 Sanitary Wastes Below Sewer
890.1370 Floor Drains
890.1380 Storm Water Drainage Within A Building

SUBPART K: VENTS AND VENTING

Section
890.1410 Materials
890.1420 Stack Vents, Vent Stacks, Main Vents
890.1430 Vent Terminals
890.1440 Vent Terminal Size
890.1450 Vent Grades and Connections
890.1460 Fixtures Back-to-Back
890.1470 Fixture Trap Vents
890.1480 Types of Fixture Trap Vents
890.1490 Installation of Vents for Fixture Traps
890.1500 Installation of Wet Venting

890.1510 Stack Venting
890.1520 Circuit and Loop Venting
890.1530 Pneumatic Ejectors
890.1540 Relief Vents
890.1550 Offsets at an Angle Less than 45 Degrees From the Horizontal in Buildings of Five or More Stories
890.1560 Main Vents to Connect at Base
890.1570 Vent Headers
890.1580 Size and Length of Vents
890.1590 Combination Waste and Vent (Floor and Hub Drains Only)
890.1600 Special Venting for Island Fixtures

SUBPART L: PLUMBING SYSTEMS/CORRECTIONAL FACILITIES

Section
890.1710 General Requirements
890.1720 Water Closets
890.1730 Urinals
890.1740 Combination Lavatory/Toilet
890.1750 Service Sinks/Lavatory
890.1760 Sinks
890.1770 Cabinet Showers
890.1780 Flush Valves
890.1790 Soap Dishes
890.1800 Floor Drains

SUBPART M: INSPECTIONS, TESTS, MAINTENANCE, AND ADMINISTRATION

Section
890.1910 Inspections
890.1920 Testing of Plumbing Systems
890.1930 Test Methods
890.1940 General Administration
890.1950 Violations

890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards
Table A1 Approved Building Drainage/Vent Pipe
Table A2 Approved Materials for Building Sewer
Table A3 Approved Materials for Water Service Pipe
Table A4 Approved Materials for Water Distribution Pipe
Table A5 Approved Materials and Standards for Plumbing Fixtures
Table A6 Approved Standards for Plumbing Appliance/Appurtenances/Devices
Table A7 Approved Standards for Fittings
Table B Minimum Number of Plumbing Fixtures
Table C Minimum Air Gaps for Plumbing Fixtures
Table D Minimum Water Distribution Pipe Size
Table E Drainage Fixture Units (D.F.U.) Per Fixture Group

Table F Fixtures Not Listed in Table E
Table G Building Drains
Table H Horizontal Fixture Branches and Stacks
Table I Distance from Fixture Trap to Vent
Table J Size of Vent Stacks
Table K Size and Length of Vents
Table L Horizontal Circuit and Loop Vent Sizing Table
Table M Load Values Assigned to Fixtures
Table N Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flush Tanks
Table O Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flushometer
Table P Demand at Individual Water Outlets
Table Q Allowance in Equivalent Length of Pipe for Friction Loss in Valves and Fittings

890.Appendix B Illustrations for Subpart A
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ILLUSTRATION B Air Gap Drawing #2
ILLUSTRATION C Battery of Fixtures
ILLUSTRATION D Branch
ILLUSTRATION E Branch Vent
ILLUSTRATION F Building Drain
ILLUSTRATION G Building Sub-drain
ILLUSTRATION H Circuit Vent
ILLUSTRATION I Common Vent
ILLUSTRATION J Continuous Vent
ILLUSTRATION K Dead End
ILLUSTRATION L Drain
ILLUSTRATION M Fixture Drain
ILLUSTRATION N Flush Valve
ILLUSTRATION O Grade
ILLUSTRATION P Horizontal Branch
ILLUSTRATION Q Main Vent
ILLUSTRATION R Quarter Bend
ILLUSTRATION S Relief Vent
ILLUSTRATION T Return Offset
ILLUSTRATION U Revent Pipe
ILLUSTRATION V Stack Vent
ILLUSTRATION W Trap
ILLUSTRATION X Vent Stack
ILLUSTRATION Y Wet Vent
ILLUSTRATION Z Yoke Vent
ILLUSTRATION AA Sleeves

890.Appendix C Illustrations for Subpart C
ILLUSTRATION A Caulked Joints
ILLUSTRATION B Flared Joints

ILLUSTRATION C Positions of Application for Compression Type Joints

890.Appendix D Illustrations for Subpart D
ILLUSTRATION A Fixture Traps
ILLUSTRATION B Distance of Trap to Fixture
ILLUSTRATION C Types of Traps
ILLUSTRATION D Trap Cleanouts
ILLUSTRATION E Prohibited Traps
ILLUSTRATION F Underground Drainage
ILLUSTRATION G Concealed Piping
ILLUSTRATION H Cleanout Clearance

890.Appendix E Illustrations for Subpart E
ILLUSTRATION A Grease Interceptor
ILLUSTRATION B Typical Grease Interceptor/Catch Basin
ILLUSTRATION C Interceptor/Separator Vents
ILLUSTRATION D Interceptors for Bottling Plants
ILLUSTRATION E Laundry Interceptors
ILLUSTRATION F Backwater Valve Location

890.Appendix F Illustrations for Subpart F
ILLUSTRATION A Prohibited Fixtures
ILLUSTRATION B Circular Wash Sinks
ILLUSTRATION C Commercial Type Grinder #1
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ILLUSTRATION E Protective Guard
ILLUSTRATION F Trap and Strainer

890.Appendix G Illustrations for Subpart G
ILLUSTRATION A Cast Iron Soil Pipe Support #1
ILLUSTRATION B Cast Iron Soil Pipe Support #2
ILLUSTRATION C Horizontal Piping Support
ILLUSTRATION D Cast Iron Soil Stack Support

890.Appendix H Illustrations for Subpart H
ILLUSTRATION A Indirect Waste Piping #1
ILLUSTRATION B Indirect Waste Piping #2
ILLUSTRATION C Indirect Waste Piping #3
ILLUSTRATION D Indirect Waste Piping #4
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ILLUSTRATION F Air Gaps

890.Appendix I Illustrations for Subpart I
ILLUSTRATION A Cross Connection #1
ILLUSTRATION B Cross Connection #2
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ILLUSTRATION D Flushometer Valve
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ILLUSTRATION F Underground Water Piping #2
ILLUSTRATION G Underground Water Piping #3
ILLUSTRATION H Water Supply Control
ILLUSTRATION I Shut-Off Valve at Meter
ILLUSTRATION J Separate Controls for Each Family Unit
ILLUSTRATION K Shut-Off Valves in Buildings Other Than Dwellings
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SUBPART A: DEFINITIONS AND GENERAL REGULATIONS

Section 890.110 General Regulations

a) Administration. For the purpose of administering and enforcing this Part, the following terms which consist of words or expressions that have a precise meaning in plumbing shall have the meaning indicated.

b) Authority

These rules are promulgated pursuant to authority granted by the Illinois Plumbing License Law (Ill. Rev. Stat. 1991, ch. 111, pars. 1101 et seq).

Section 890.120 Definitions

"Abutting": Abutting means to border, to touch, to terminate at point of contact, adjacent.

"Accessible": Accessible means easily approached or entered with minor modifications such as the removal of an access panel, door or similar obstruction.

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"Air Gap": The air gap in a water-supply system is the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank or plumbing fixture and the flood-level rim of the receptacle. See Appendix B: Illustrations A and B.

"Anchor": An approved support for securing pipe, fixtures, and equipment to walls, ceilings, floors, or any other structural members.

"Antimicrobial": An additive or surface coating that prohibits the growth of bacteria or staphylococci.

"Anti-siphon Ball Cock": An anti-siphon ball cock is a device consisting of a float valve with a flow-splitter to provide for tank and trap refill, which has an integral vacuum breaker, and which is used in conjunction with water closet flush tanks.

"Approved": Approved means accepted or acceptable under an applicable specification stated or cited in this Part or accepted as suitable for the proposed use.

"Area Drain": A drain placed in the floor of a basement areaway, a depressed or basement entry way, a loading platform, or a paved driveway which cannot otherwise be drained.

"Atmospheric Vacuum Breaker": A device consisting of a soft disc, reaction cup, stem guide with machined brass seat and large hooded atmospheric vent port used to prevent back siphonage.

"Aspirator": A device supplied with fluid under positive pressure which passes through an integral orifice or constriction causing a partial vacuum. Any apparatus for producing a movement of fluid by the suction of that partial vacuum.

"Back Pressure": Back pressure is a condition where reverse pressure exceeds the pressure in the intended (normal) direction, or exceeds the ususal pressure of flow or thrust. Such back pressure can cause liquid or air to flow in the direction opposite to the normal direction of flow.

"Back Siphonage": The flowing back (or backflow) of fluid from a plumbing fixture, vessel or other source caused by a negative pressure.

"Back Siphonage Preventer": A device designed to prevent reverse flow in a water system, specifically back siphonage. The device should be used only where no backpressure may occur.

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"Back Water Valve": A device or valve that is installed in a sanitary sewer, storm drain or storm sewer to prevent sewage or drainage from backing up.

"Backflow": Backflow is the reversal of flow from that normally intended. Back siphonage is one type of backflow.

"Backflow Connection": Backflow connection or condition is any arrangement whereby backflow can occur.

"Backflow Preventer": A backflow preventer is a device to prevent backflow into the potable water supply system. A device which prevents contaminated water or liquids from being siphoned or pushed from back pressure into the potable water supply system.

"Backflow Preventer, Double Check Backflow Preventer Assembly (DCV)": A double check backflow preventer assembly is a device covered by ASSE Standard #1015, for intermittent or continuous use, low hazard conditions and consists of valves located at each end of the device. It is also supplied with test cocks.

"Backflow Preventer, Double Check Backflow Preventer with Intermediate Atmospheric Vent Assembly": A double check backflow preventer with an intermediate atmospheric vent assembly is covered by ASSE Standard #1012 and is capable of preventing back siphonage and backflow in water lines under continuous or intermittent pressure conditions. This device has two (2) independent internal force-loaded check valves separated by an intermediate chamber with a means for automatically venting to the atmosphere. It is approved for low hazard use. This device has two (2) tightly closing shut-off valves located at each end of the device and four (4) test cocks for testing the check valves.

"Backflow Preventer, Double Detector Check Valve Backflow Preventer Assembly (DDC)": A double detector check valve assembly is a device convered by ASSE Standard #1015, constructed of two (2) independent check valves internally force-loaded with two (2) tightly closing valves located at each end of the device. In addition, the device has a by-pass line with a water meter and two (2) independent check valves located within that line. The device is for low hazard conditions.

"Backflow Preventer, Dual Check Valve Backflow Preventer Assembly (DuC)": A dual check valve backflow preventer assembly is a device covered by ASSE Standard #1024, constructed to operate under intermittent or continuous pressure conditions, consisting of two (2) independent internal force-loaded check valves and is for low hazard

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conditions. The device must be located between two (2) tightly closing valves. The check valves are removable for testing.

"Backflow Preventer, Reduced Pressure Principle Backflow Preventer Assembly (RPZ)": A reduced pressure principle backflow preventer assembly is a device covered by ASSE Standard #1013 consisting of two (2) internal force-loaded check valves separated by an intermediate chamber for automatic venting/discharging to the atmosphere. The first check valve reduces the supply pressure a predetermined amount so that during normal flow, and at cessation of normal flow, the pressure between the two (2) check valves will be lower than the supply pressure. If either check valve leaks, the relief valve will discharge to atmosphere and maintain the pressure in the zone between the two (2) check valves lower than the supply pressure. This device has two (2) shut-off valves located at each end of the device and four (4) test cocks for testing the check valves. This device is for high hazard conditions and is approved for continuous use.

"Ball Cock": A device consisting of a float valve equipped with a flow-splitter to provide a tank and trap refill; used in conjunction with a flush tank on a water closet.

"Battery of Fixtures": A battery of fixtures is any group of two (2) or more similar adjacent fixtures which discharge into a common horizontal waste or soil branch. See Appendix B: Illustration C.

"Boiler Blow-Down": Boiler blow-down is a controlled outlet on a boiler to permit emptying or discharging of sediment.

"Branch": A branch is any part of the piping system other than a main, riser, or stack. See Appendix B: Illustration D.

"Branch Interval": A branch interval is a length of soil or waste stack corresponding in general to a story height, but in no case less than eight (8) feet, within which the horizontal branches from one floor or story of a building are connected to the stack.

"Branch Vent": A branch vent is a vent connecting one or more individual vents with a vent stack or stack vent. See Appendix B: Illustration E.

"Building Classification": Building classification refers to the Department's designation of buildings into differing types based upon use or occupancy, e.g., residential buildings, dormitories, office buildings, restaurants, etc.

"Building Drain": The building (house) drain is that part of the lowest horizontal piping of a drainage system which receives the

discharge from soil, waste, and other drainage pipes inside the walls of the building and conveys it to the building (house) sewer. The building drain terminates five (5) feet outside the building foundation wall. See Appendix B: Illustration F.

"Building Sewer": The building (house) sewer is that part of the horizontal piping of a drainage system which extends from the end of the building drain, receives the discharge of the building drain and conveys it to a public sanitary sewer or private sewage disposal system. The building sewer commences five (5) feet outside the building foundation wall.

"Building Storm Drain": A building storm drain is the lowest horizontal portion of the storm drainage system used for conveying rain water, surface water, ground water, subsurface water, site drainage, condensate, cooling water, or other similar liquid waste (excluding sewage) inside the walls of a building to a point five feet beyond the outside of the building foundation wall.

"Building Sub-drain": A building sub-drain is that portion of a sanitary drainage system (see definition of "Drainage System") which cannot drain by gravity into the building drain. See Appendix B: Illustration G.

"Building Trap": A building (house) trap is a device, fitting or assembly of fittings installed in a building drain to prevent circulation of air between the drainage system of the building and the building sewer.

"Chemical Waste System": Piping which conveys corrosive or toxic chemical waste to the drainage system.

"Circuit Vent": A circuit vent is a branch vent that serves two (2) or more traps and extends from the front of the last fixture connection of a horizontal branch to the vent stack. This type of venting applies only to floor drains and floor outlet fixtures which depend on siphonage for proper operation. See Appendix B: Illustration H.

"Clear Water" or "Clear Water Waste": Cooling water and condensate waste from refrigeration or air conditioning equipment, cooled condensate from steam heating systems, cooled boiler blowdown water, and seepage water.

"Closed Water System": If a backflow preventer device is installed in a water distribution system, that portion of the system on the outlet side of the device is considered a closed water system. A check valve or backflow preventer (e.g., a reduced pressure principle

backflow preventer assembly) may be used to create a closed water system.

"Code": The term "code" is commonly used to mean state or local statutes, ordinances, rules or regulations, e.g., requirements for plumbing methods, materials, etc. This Part 890, the Illinois Plumbing Code, will be referenced in this rule as "Part". In order for a state plumbing code to be enforceable, it must be authorized by Illinois statute and be promulgated pursuant to such statute. At the local level, a county, city, township, village, sanitary/water district must adopt a plumbing ordinance or resolution and a plumbing code, and such ordinance or resolution and code must be filed with the clerk's office. A standard for plumbing contained in any local code that has not been officially adopted can only be construed as a recommended standard.

"Combination Fixture": A combination fixture is a fixture combining two or more wells or receptors.

"Combined Building Sewer": A combined building sewer is one which receives storm water and sewage.

"Combination Waste and Vent System": A combination waste and vent system is a system of waste piping with the horizontal wet venting of one or more floor drains by means of a common waste and vent pipe adequately sized to provide free movement of air above the flow line of the drain.

"Common Vent": A common vent is a vent connecting at the junction of two fixture drains and serving as a vent for both fixtures. See Appendix B: Illustration I.

"Common Waste": A common waste is a drain from a single fixture containing multiple compartments connected to a single trap.

"Connection": A connection is the joining of two pieces of pipe, or pipes and fittings, valves or other appurtenances.

"Contaminant" means any solid, liquid, or gaseous matter which, when present in a potable water supply distribution system, may cause the water to degrade so that water quality standards are not met or physical illness or injury to persons consuming the water could result.

"Contaminated Water": Contaminated water is water not suitable for human use in accordance with the inorganic, turbidity, organic and microbiological requirements of Sections 900.50, 900.65 and 900.70 of the Drinking Water Systems Code (77 Ill. Adm. Code 900).

"Continuous Vent": A continuous vent is a vertical vent that is a continuation of the drain to which it connects. The drain may be either vertical or horizontal. A continuous vent is also known as a back vent or an individual vent. See Appendix B: Illustration J.

"Continuous Waste": A continuous waste is a waste line from two (2) or more fixtures or sink wells, such as a combined three-well sink, connected to a single trap.

"Critical Level": "critical level" is the mark on an atmospheric vacuum breaker established by the manufacturer and stamped "-CL-". This determines the minimum elevation above the flood-level rim or top of the fixture, whichever shall apply, at which the device shall be installed. When an atmospheric vacuum breaker does not bear a critical level marking, the bottom of the vacuum breaker shall constitute the critical level.

"Cross Connection": A cross connection is any physical connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other fluids of any kind, whereby water or other fluids may flow from one system to the other, the direction of flow depending on the pressure differential between the two piping systems.

"Cross-Connection Control by Containment": The installation of a backflow preventer at the service-connection to a premises to protect the water main.

"Cross-Connection Control by Isolation": The installation of a backflow preventer at each cross-connection in a premises to protect both the premises and water main.

"Cross-Connection Control (CCC)": An activity designed to prevent discover, and eliminate, all cross-connections.

"Cross-Connection Control Device": A cross-connection control device is a safety device installed in a potable water line to prevent potable water and fluids of any kind from being mixed. Cross-connection control devices include, but are not limited to: atmospheric vacuum breaker, double check backflow preventer, double detector backflow preventer, dual check backflow preventer, and reduced pressure principle backflow preventer.

"Cross-Connection Control Device Inspector": A plumber who holds an Illinois Plumbing License and who has been certified by the Illinois Environmental Protection Agency in accordance with 35 Ill. Adm. Code 653.802 to make inspections, test, maintain and repair cross-connection control devices. Such certification attests to

inspector's understanding of the principles of backflow and back siphonage, and the public health hazard presented by the improper installation of cross-connection control devices.

"Cross-Connection, Nonpressure Type": A submerged inlet installation where a potable water pipe is connected or extended below the overflow rim of a receptacle, or environment that contains a non-potable fluid at atmospheric pressure.

"Cross-Connection, Pressure Type": An installation where a potable water pipe is connected to a closed vessel or piping system that contains non-potable fluid, above atmospheric pressure.

"Dead End": A dead end is a pipe which is terminated at a developed distance of two (2) feet or more by means of a plug or other closed fitting, except piping serving as a cleanout extension to an accessible area. See Appendix B: Illustration K.

"Developed Length": The developed length of a pipe is its length measured along the center line of the pipe including fittings.

"Diameter": The length of a straight line through the center of an object, e.g., a circle; thickness. (For the diameter of a pipe, see "Pipe Diameter.")

"Drain": A drain is any pipe which carries waste water in a building drainage system. See Appendix B: Illustration L.

"Drain Laying": Drain laying encompasses the laying and connecting of piping from five (5) feet from the foundation walls of a building to the sewer in the street or alley.

"Drainage Fixture Unit (D.F.U.)": See "Fixture Unit, Drainage."

"Drainage Piping": See "Drainage System."

"Drainage System": A drainage system includes all piping within public or private premises which conveys sewage, rain, or other liquid wastes to a point of disposal, but does not include the mains of a public sewer system or a private or public sewage treatment or disposal plant. The drainage system does not include the venting system. Drainage and venting are separate systems, although both are part of the overall plumbing system.

"Durham System": Durham system is a soil or waste system where all piping is of threaded pipe, using recessed drainage fittings.

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"Effective Opening": The effective opening is the minimum cross-sectional area at the point of water supply discharge, measured or expressed in terms of: 1) the diameter of a circle, or; 2) if the opening is not circular, the diameter of a circle of equivalent cross-sectional area. (This is applicable to sizing an air gap.)

"Existing Plumbing" or "Existing Work": For purposes of this Part, existing plumbing or existing work means a plumbing system or any part thereof which has been installed prior to the effective date of this Part.

"Extracted Mechanical Joint": A joint which is developed with a special drilling tool used to penetrate a copper pipe wall, after which two steel pins are extended from the drill. While rotating, the drill head is withdrawn from the pipe under power, raising an external collar from the hole in the pipe. The branch pipe is then brazed into the collared outlet.

"Fixed": Stationary, immovable or immobile, as in a fixed air gap.

"Fixture Branch": A fixture branch is a water supply, soil or waste pipe serving one or more fixtures.

"Fixture Carrier": A fixture carrier is a device designed to support an off-the-floor plumbing fixture.

"Fixture Drain": A fixture drain is the outlet pipe from the trap of the fixture to the junction of that pipe with any other drain pipe. See Appendix B: Illustration M.

"Fixture Supply": A water supply pipe connecting the fixture to a branch or main water supply pipe.

"Fixture Unit, Drainage" or "Drainage Fixture Unit (D.F.U.)": A fixture unit, drainage is the mathematical factor used by the plumbing industry to estimate the probable load on the drainage system caused by discharge from various plumbing fixtures. One fixture unit, drainage is equivalent to seven and one-half (7.5) gallons per minute or one (1) cubic foot per minute.

"Fixture Unit, Water Supply" or "Water Supply Fixture Unit (W.S.F.U.)": Fixture unit, water supply is the mathematical factor used by the plumbing industry to estimate the probable demand on the water supply system (considering the volume, duration of flow, and intervals between operations) caused by various plumbing fixtures.

"Float Valve": A float valve is a automatic opening valve, operated by a float, used to control the water level in a vessel, tank, or other container.

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"Flood Level": The flood level of a fixture or receptacle is the elevation at which an impounded liquid will overflow the fixture or receptacle.

"Flood Level Rim": The top edge of a receptacle or fixture over which an impounded liquid will flow when the receptacle or fixture is filled beyond its capacity (or flooded). "Overflow rim" is used interchangeably with flood level rim.

"Flooded": A fixture is flooded when the liquid therein equals the maximum capacity of the fixture or when the level of the liquid therein rises to the fixture's flood level rim. Any attempt to add additional liquid to a flooded fixture causes liquid to overflow.

"Flush Valve": A flush valve is a device for the purpose of flushing water closets and other similar fixtures. See Appendix B: Illustration N.

"Flushometer Valve": A flushometer valve is a device actuated by hand, a photoelectric cell, or other electronic control which discharges a predetermined quantity of water to fixtures for flushing purposes. The valve is closed by direct water pressure.

"Grade": Grade is the fall, pitch, or slope of a line of pipe in reference to a horizontal plane. In drainage, it is usually expressed as the fraction of an inch fall per foot length of pipe. This may also be expressed as a percentage. See Appendix B: Illustration O.

"Grease Interceptor": A device used to separate and retain grease, oils and other floating matter from sewage waste while permitting the remaining flow to discharge into the drainage system. See "Interceptor."

"Grey Water": Waste water, such as dishwater, or other waste water not containing fecal matter or urine.

"Group of Fixtures": A group of fixtures means two or more fixtures adjacent to or near each other.

"Hangers": Devices for supporting and securing pipe, fixtures, and equipment to walls, ceilings, floors, or any other structural member.

"High Toxicity": A substance with an oral LD_{50} (lethal dose for 50 percent of the population) of 500 milligrams per kilogram or less is considered highly toxic. An average adult would have to ingest less than an ounce of the substance to experience severe illness or death. Cyanide is an example of a highly toxic substance.

"Horizontal Branch": A horizontal branch is a drain pipe extending laterally from a soil or waste stack or building drain, with or without vertical sections or branches, which receives the discharge from one or more fixture drains and conducts the discharge to the soil or waste stack or to the building drain. See Appendix B: Illustration P.

"Horizontal Pipe": Horizontal pipe means any pipe or fitting which makes an angle of less than 45 degrees with the horizontal.

"Hose": A flexible tube for conveying fluids (as from a faucet or hydrant).

"Hose Bibb": A faucet to which a hose may be attached.

"House Drain": See "Building Drain."

"House Trap": See "Building Trap."

"Hydrant": A valve or faucet for drawing water from a buried pipe which generally includes a stand pipe with a valve or faucet at the upper end. It usually has a threaded valve outlet to which a hose may be attached.

"Indirect Waste": An indirect waste is a pipe that does not connect directly with the drainage system but conveys liquid waste by discharging through an air gap into the drainage system.

"Individual Vent": An individual vent is a pipe installed to vent a fixture trap which connects with the vent system above the fixture served, or which terminates in the outside atmosphere.

"Individual Water Supply (Private Water Supply)": A water supply system serving a single family dwelling.

"Industrial Wastes": Industrial wastes are liquid wastes resulting from the processes employed in industrial and commercial establishments.

"Insanitary": Contaminated. Not hygienic, or unclean enough to endanger health.

"Interceptor": An interceptor is a device designed and installed to separate and retain hazardous or undesirable matter from normal waste and permit normal sewage or liquid waste to discharge into the drainage system. Interceptors may be designed to remove gas, oil, sand, grit and grease. "Separator" is also commonly used to mean an "interceptor."

"Invert": The invert is the lowest part of the internal cross-section of a pipe or conduit.

"Island Fixture Vent": A vent in which the vent pipe rises as near as possible to or above the highest water level in the fixture vented and then turns down before connecting to the stack or main vent. See Section 890.1600 ("Special Venting for Island Fixtures").

"Joint": A joint is the juncture of two pipes, a pipe and a fitting, or two fittings.

"Lead Free": When used with respect to solder and flux, lead free refers to solders and flux containing not more than two-tenths of one percent (0.2%) lead; and when used with respect to pipe and pipe fittings, lead free refers to pipes and fittings containing no more than eight percent (8.0%) lead.

"Length of Pipe": Length of pipe is the overall distance measured along the center line of a pipe. See "Developed Length."

"Liquid Waste": Liquid waste is the discharge from any fixture, appliance, or appurtenance, in connection with a plumbing system which does not receive fecal matter.

"Load Factor": The load factor is the percentage of the total connected fixture unit flow rate which is likely to occur at any point in the drainage system. The load factor varies with the type of occupancy, the total flow above the point being considered, and probability of simultaneous use. Load factor represents the ratio of the probable load to the potential load.

"Local Ventilating Pipe": A local ventilating pipe is a pipe on the fixture side of the trap through which vapors or gases or foul air are removed from a room or fixture to the outside atmosphere. Certain special apparatus, such as sterilizers, are sometimes provided with a local ventilating pipe in order to remove vapors. A local ventilating pipe is not connected into the vent piping of the drainage system.

"Loop Vent": A circuit vent which loops back to connect with a stack vent instead of a vent stack. Its use is limited to floor drains and floor outlet fixtures which depend on self siphonage for proper operation.

"Low Toxicity": A substance with an oral LD_{50} (lethal dose for 50 percent of the population) greater than 5,000 milligrams per kilogram is considered practically nontoxic. An average adult would have to

ingest more than a pint of the substance to experience severe illness or death. Hydrogen peroxide is an example of a substance of low toxicity.

"Main": The main of any piping system is the principal artery of the system to which branches may be connected.

"Main Vent": The main vent is the principal artery of the venting system to which vent branches may be connected. See Appendix B: Illustration Q.

"Maximum Demand": In plumbing, the greatest requirement of flow of either water supply or waste discharge from the fixtures of a building, or any specific segment thereof.

"Manhole": A manhole is an opening constructed to permit a person to gain access to an enclosed space. In a sewer or any portion of the plumbing system, it is used to eliminate restriction of flow at changes of direction or junctions and to facilitate cleaning.

"Minor Repairs": Minor repairs do not require changes in the piping to or from plumbing fixtures or involve the removal, replacement, installation or reinstallation of any pipe or plumbing fixture.

"Moderate Toxicity": A substance with an oral LD_{50} (lethal dose for 50 percent of the population) of 500 to 5,000 milligrams per kilogram is considered moderately toxic. An average adult would have to ingest between an ounce (2 tablespoons) and a pint of the substance to experience severe illness or death. Chloroform is an example of a moderately toxic substance.

"New Plumbing" or "New Work": For purposes of this Part, new plumbing or new work means any plumbing system or part thereof, or any addition to or alteration of an existing system, being installed or recently completed.

"Non-Potable Water": Non-potable water is water that does not meet public health standards for drinking water (Refer to 77 Ill. Adm. Code 900) and is not suitable for human consumption or culinary use. Any water of unknown quality is considered non-potable.

"Non-Toxic Transfer Fluids": Fluids having no normal detrimental effect on humans.

"Occupancy": Occupancy generally means the use for which a building currently serves. In the case of a single family residence, occupancy shall mean taking possession of and living in the premises

as one's sole and exclusive residence for a period of not less than six (6) months after the completion of construction, or issuance of a Certificate of Occupancy by a unit of local government.

"Offset": An offset in a line of piping is a combination of elbows or bends which brings one section of pipe into a line parallel with the other section.

"Open Plumbing": Installation of plumbing so that traps and drainage pipes and their surroundings beneath fixtures are ventilated, accessible, and open to inspection. Open plumbing is also referred to as an exposed plumbing installation.

"Open Water System": A water system with no check valve or backflow preventer installed in the service pipe.

"Overflow Rim": The top edge of a receptacle or fixture over which an impounded liquid will flow when the receptacle or fixture is filled beyond its capacity (or flooded). "Flood level rim" is used interchangeably with overflow rim.

"p.s.i."; "P.S.I."; or "psi": Pounds per square inch of pressure.

"Part": When used in this rule, "Part" means the Illinois Plumbing Code in its entirety, Part 890 (referenced as 77 Ill. Adm. Code 890), subsequent amendments thereto, or any emergency rule which the Department lawfully adopts.

"Peppermint Oil": A pungent, aromatic mint oil sometimes used in testing a drain, waste and vent system by means of a "Peppermint Test."

"Peppermint Test": A test for leakage using peppermint oil and hot water as the media, and the sense of smell to determine any leak; also known as a "scent test" (see Section 890.1930(e)).

"Pet Cock": A pet cock is a small faucet or valve used to drain water, steam, or air.

"pH": An expression of acidity and alkalinity on a scale from zero (0) to 14, with seven (7.0) being neutral. Numbers less than seven (7.0) indicate increasing acidity as the number decreases, and numbers greater than seven (7.0) indicate increasing alkalinity as the number increases.

"Pipe": A cylindrical conduit or conductor, the wall thickness of which is sufficient to receive a standard pipe thread.

"Pipe Diameter": Generally the distance measured from the inside wall of a pipe (through the center of the pipe) to the opposite inside wall. For purposes of this Part, any referenced pipe diameter or pipe size shall mean the nominal size or diameter as designated by the commercial manufacturer.

"Pipe Increments": For increasing or decreasing pipe size by a given number of pipe increments - the following examples constitute one pipe size change: 1, 1 1/2, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5.

"Pipefitting": The installation of piping other than that piping which is defined as plumbing.

"Piping": Piping is an assembly of pipes or conduit with fittings of compatible design. This term is commonly interchanged with "Pipe."

"Pitch": "Pitch" is synonymous with "grade." See "Grade."

"Plumbing": See the Illinois Plumbing License Law (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 1102).

"Plumbing Appliance": A plumbing appliance is a special class of plumbing fixture intended to perform a special function. This term includes water heaters, water coolers, drinking fountains, heat exchanger and water treatment equipment other than water softeners.

"Plumbing Appurtenance": An accessory or device used in a plumbing system which demands no additional water supply, nor adds any discharge load to a fixture or the drainage system. Plumbing appurtenances shall include instruments, gauges, relief valves, limit switches, solonoid valves, etc.

"Plumbing Fixture": Plumbing fixtures are (approved) installed receptacles, devices or appliances which are supplied with water or which receive or discharge liquid or liquid-borne waste, with or without discharge of such waste into the drainage system to which they may be directly or indirectly connected. Generally an installed appurtenance to the potable water supply system which makes available intended potable water, or a receptor which receives and discharges liquids or liquid-borne waste either directly or indirectly into the drainage system. A permanent appendage usually designed as a receptacle and intended to receive and/or discharge liquid or liquid-borne waste to a drainage system. Industrial or commercial tanks, vats, and similar processing equipment are not plumbing fixtures, but they may be connected to, or discharged into, approved traps or plumbing fixtures.

"Plumbing Inspector": An employee or agent of state of local government who holds a valid Illinois Plumbing License and is authorized to inspect plumbing.

"Plumbing System": See the Illinois Plumbing License Law (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 1102).

"Pop-Up Waste": A pop-up waste consists of a waste outlet into which a sliding metal or plastic stopper is fitted, and the stopper can be raised to drain the waste. A common pop-up waste used for lavatories has a lever which passes out the side of the drain fitting and connects to a lift rod that extends on top of the lavatory or sink. The rod is lifted to lower the stopper, or depressed to raise the stopper and drain the lavatory.

"Potable Water": Potable water is water that is suitable for human consumption in accordance with the Drinking Water Systems Code (77 Ill. Adm. Code 900).

"Pressure Gradient Monitor": A device used to protect the quality of water, failsafe by design, securing the potable water system by isolating a heat exchanger when the pressure between the potable water and the heat exchange medium drops below a preset level.

"Pressure Relief Valve": See "Relief Valves."

"Private" or "Private Use": In the classification of plumbing fixtures, private applies to fixtures in residences, apartments, and private bathrooms of hotels or motels where the fixtures are intended for the use of a single family or an individual.

"Private Sewage Disposal System": This means any sewage handling or treatment facility receiving domestic sewage from less than fifteen (15) people or population equivalent and having a ground surface discharge or any sewage handling or treatment facility receiving domestic sewage and having no ground surface discharge. Refer to Private Sewage Disposal Licensing Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 116.301 et seq.) and Private Sewage Disposal Licensing Code (77 Ill. Adm. Code 905).

"Private Sewer": A private sewer is a sewer privately owned and not directly controlled by a public authority.

"Private Water Supply": Any potable water supply which is not a public water supply or part of a public water system.

"Proper" or "Properly" means to be accurate or meeting the standard of competence for the given situation and properties of the materials involved based upon the standards in this Part and manufacturer's recommendations.

"Public" or "Public Use": For purposes of classifying plumbing fixtures, "public" refers to any installation or use of plumbing fixtures or facilities except those in residences, apartments or private bathrooms of hotels/motels where the fixtures are intended for the personal use of an individual or single family only.

"Public Sanitary Sewer": A public sanitary sewer is controlled by a public authority and is intended to receive and transport sewage.

"Public Water System": A public water system is a system for the provision to the public of piped water for human consumption, if the system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. The term public water system includes: any collection, treatment, storage, and distribution facility under the control of the operator of such system and used primarily in connection with such system; and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system.

"Quarter Bend": A quarter bend is a fitting changing direction of 90 degrees. See Appendix B: Illustration R.

"Quick Closing Valve": A valve or faucet that closes automatically when released or one that has fast action closing.

"Readily Accessible": Readily accessible means direct access without the necessity of removing or moving any panel, door or similar obstruction.

"Receptor": Devices or fixtures which receive the discharge from indirect waste pipes.

"Reduced Pressure Zone Principle Backflow Preventer Assembly (RPZ)": See "Backflow Preventer, Reduced Pressure Principle Backflow Preventer Assembly (RPZ)."

"Relief Valves":

1) Temperature relief valve - A valve designed to release water to the atmosphere at a predetermined temperature setting.

2) Pressure relief valve - A valve designed to relieve excessive pressure to the atmosphere at a predetermined setting.

3) Temperature and pressure relief valve - a valve incorporating a temperature relief valve and a pressure relief valve in one unit.

4) Vacuum relief valve - A valve which admits air to the system when the system is attempting to reduce its pressure to less than atmospheric.

"Relief Vent": A vent which permits circulation of air in or between drainage and vent systems. See Appendix B: Illustration S.

"Restroom": For the purpose of this Part, a restroom, as a minimum, will consist of one water closet and one lavatory all located in the same room.

"Return Offset": A double offset installed so as to return the pipe to its original alignment. See Appendix B: Illustration T.

"Revent Pipe": See "Individual Vent". See Appendix B: Illustration U.

"Rim": An unobstructed open edge of a fixture.

"Riser": A water supply pipe which extends vertically one full story or more to convey water to branches or to a group of fixtures.

"Roughing-In": The installation of all parts of the plumbing system which can be completed prior to the installation of fixtures. This includes drainage, water supply, and vent piping, and the necessary fixture supports.

"Safe Pan": A safe pan is installed beneath piping and/or a fixture to collect and drain any leakage. Safe pans are especially important in food preparation/storage areas and sterile areas of health care facilities that have overhead, exposed, drainage piping.

"Safe Waste": See "Indirect Waste."

"Sanitary Sewer": A sanitary sewer is a sewer into which building sewers are connected.

"Sanitary Waste": Sanitary waste is sewage containing human excrement and liquid household wastes or ordinary wastes derived from a plumbing system.

"Semi-Private Water System": means a water supply which is not a public water system, yet which serves a segment of the public other than an owner-occupied single family dwelling. Illinois Groundwater Protection Act. (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 6309).

"Separator": See "Interceptor."

"Service Connection": A service connection is the tap at the water main and any pipe to the property line.

"Sewage": Sewage is any waste containing animal, human, or vegetable matter in suspension or solution, and may include liquids containing chemicals in solution.

"Sewage Ejector": A device for lifting sewage by pumping means.

"Side Vent": A vent connecting to the drain pipe through a fitting at an angle not greater than 45 degrees to the vertical.

"Sillcock": A type of lawn faucet. A faucet used on the outside of a building to which a garden hose may be attached.

"Size of Pipe or Tubing": Pipe is generally sized according to the approximate dimension of its bore or inside diameter, whereas tubing is usually sized by measuring its outside diameter. Both are expressed in inches and fractions thereof. For purposes of this Part, any referenced pipe or tubing size shall mean the nominal size or diameter as designated by the commercial manufacturer.

"Slope": "Slope" is synonymous with "grade." See "Grade."

"Soil Pipe": A soil pipe is any pipe which conveys the discharge of water closets or fixtures having similar functions, with or without the discharge from other fixtures, to the building drain.

"Special Wastes": Wastes which require special handling and treatment before they may be discharged into the plumbing system. See Subpart H.

"Special Waste Pipe": Piping which conveys special waste. Piping that has been designed and manufactured of special material to handle special waste such as acids.

"Sprinkler System": There are two basic types of sprinkler systems. A fire sprinkler system is a system of piping and necessary appurtenances for conveying water or other extinguishing fluid to outlets for the purpose of fire extinguishment. A lawn sprinkler system is a system of piping installed for irrigation purposes.

"Stack": A general term for any vertical line of soil, waste, or vent piping.

"Stack Vent": The extension of a soil or waste stack above the highest horizontal drain connected to the stack. See Appendix B: Illustration V.

"Stack Venting": A method of venting a fixture or fixtures through the soil or waste stack.

"Sterilizer, Boiling Type": A boiling type "sterilizer" is a fixture (non-pressure type) used for boiling instruments, utensils, and/or other equipment (used for sterilization). Some devices are portable, others are connected to the plumbing system.

"Sterilizer, Instruments": A device for the sterilization of various instruments.

"Sterilizer, Pressure (autoclave)": A fixture (pressure vessel) designed to use steam under pressure for sterilizing.

"Sterilizer, Pressure Instrument Washer-Sterilizer": A pressure instrument washer-sterilizer is a fixture (pressure vessel) designed to both wash and sterilize instruments during the operating cycle of the fixture.

"Sterilizer Vent": A separate pipe or stack, which is trapped below the lowest exhaust and indirectly connected to the building drainage systems, which receives the vapors from non-pressure sterilizers, or the exhaust vapors from pressure sterilizers, and conducts the vapors directly to the outside atmosphere. Sometimes called a vapor, steam, atmospheric, or exhaust vent.

"Sterilizer Water": A water sterilizer is a device for sterilizing water and storing sterile water.

"Storm Sewer": A sewer which is used for conveying rain water, surface water, ground water, subsurface water, site drainage, condensate, cooling water or other similar liquid waste (excluding sewage) from the building storm drain to an approved point of discharge.

"Sub-soil Drain": A drain which collects sub-soil drainage and conveys it to a place of disposal.

"Sub-soil Drainage": Sub-soil drainage is liquid waste such as run off water, seepage water or clear water waste, free of fecal matter and grey water.

"Sump": A sump is a receptacle which receives sanitary or storm waste, located below the normal grade level of the gravity system, and emptied by pumping or gravity.

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"Sump Pump": A pump for the removal of drainage from a sump.

"Supports." A support is a hanger, anchor or other device for securing or holding pipe fixtures to walls, ceilings, floors, or structural members.

"Swimming Pool": Refer to the Swimming Pool and Bathing Beach Act (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 1201 et seq.) for minimum sanitary requirements for the design and operation of swimming pools and bathing beaches.

"Terminal Heating Device": A device located within the environment to be conditioned which directly transfers its heating energy by radiation or forced or gravity convection.

"Test Cock": A test cock is a small cock, faucet, or valve set in a water pipe, pump, backflow device or water jacket used to drain water or test pressure.

"Toxic": Not fit for human consumption. Poisonous.

"Toxic Transfer Fluids": Sanitary waste, grey water or mixtures containing harmful substances including but not limited to ethylene glycol, hydrocarbons, oils, ammonia refrigerants, and hydrazine.

"Trap": A trap is a fitting or device so designed and constructed as to provide, when properly vented, a liquid seal which will prevent the back passage of air without materially affecting the flow of sewage or waste water through it. See Appendix B: Illustration W.

"Trap Arm": A trap arm is that portion of a fixture drain between a trap and its vent.

"Trap Primer": A trap primer is a device or system of piping to maintain a water seal in a trap.

"Trap Seal": The vertical distance between the crown weir and the top of the dip of the trap. (See Appendix B: Illustration W).

"Tube": A cylindrical conduit or conductor, the wall thickness of which is less than that needed to receive a standard pipe thread. Compare with "Pipe."

"Tuberculation": A condition which develops on the interior of pipe due to corrosion resulting in the creation of small, hemispherical lumps (tubercules) on the inner walls of the pipe.

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"Union": A union is a coupling device used to join two pipes end-to-end, but allow them to be disconnected and re-connected. This joint can be assembled and disassembled without removing any adjacent pipes.

"Vacuum": A pressure less than atmospheric pressure, sometimes referred to as suction. It is usually measured in inches of mercury below atmospheric pressure, such as ten (10) or twenty inches of mercury. To vacuum also means to siphon.

"Vacuum Breaker": A device which prevents the creation of a vacuum by admitting air at atmosphere pressure, used to prevent back siphonage.

"Vacuum Breaker, Hose Type (HVB)": A back siphonage prevention device designed for hose connections which are not under continuous pressure.

"Vacuum Breaker, Non-Pressure Type (Atmospheric)": A vacuum breaker which is not designed to be subject to static line pressure.

"Vacuum Breaker, Pressure Type": A vacuum breaker designed to operate under conditions of static line pressure.

"Vacuum Relief Valve": A device to prevent excessive vacuum in a pressure vessel.

"Vent, Main": See "Main Vent."

"Vent Pipe." A pipe in a plumbing system that is used to equalize pressure and ventilate the plumbing system. Also see the definition of "Vent System."

"Vent Stack": A vent stack is a vertical vent pipe installed primarily for the purpose of providing circulation of air to and from any part of the drainage system and terminating to the atmosphere or in the stack vent. See Appendix B: Illustration X.

"Vent System": The pipe or pipes installed to provide a flow of air to or from a drainage system and to provide a circulation of air within the system to protect trap seals from siphonage and back pressure.

"Venturi": A short section in a pipe with a reduced diameter or cross sectional area (forming a throat) compared to the larger ends, thereby increasing the velocity of the fluid passing through the throat and decreasing the pressure at the throat. This decrease in pressure allows another fluid to be drawn into the venturi.

"Vertical Pipe": Any pipe or fitting which makes an angle of 45 degrees or less with the vertical.

"Wall Hung Water Closet": A water closet installed in such a way that no part of the water closet touches the floor.

"Waste": See "Sanitary Waste."

"Waste Pipe": A pipe which conveys only waste material.

"Water Distribution Pipe": A pipe within the building or on the premises which conveys water from the water service to the point of usage.

"Water Hammer": A concussion or sound of concussion of moving water against the sides of a containing pipe or vessel due to a sudden stoppage of flow. A pressure that results from a sudden deceleration of flow of water in a closed conduit. It is also called hydraulic shock.

"Water Hammer Arrester": A device to absorb hydraulic shock.

"Water Heater": An appliance for supplying hot water for domestic or commercial purposes. It may be used for space heating if the water temperature does not exceed 150 degrees F.

"Water Main": A water supply pipe for public or community use.

"Water Outlet": A opening through which water is supplied to a fixture, device, appliance or an appurtenance or into the atmosphere.

"Water Riser Pipe": See "Riser."

"Water Service" or "Water Service Pipe": A water service is the pipe from the water main or source of potable water supply to the water distribution pipe of the building served.

"Water Supply Fixture Unit (W.S.F.U.)": See "Fixture Unit, Water Supply."

"Water Supply Stub": A vertical pipe less than one story in height supplying one or more fixtures.

"Water Supply System": The water service pipe, the water distribution pipe, and all fittings, valves, and appurtenances in or associated with the building or premises being served.

"Wet Vent": A vent which also serves as a drain. A vent which receives the discharge of wastes other than from water closets. See Appendix B: Illustration Y.

"Yoke Vent": A pipe connecting upward from a soil or waste stack to a vent stack from the purpose of preventing pressure changes in the stack. See Appendix B: Illustration Z.

Section 890.130 Incorporation by Reference

All incorporations by reference of federal regulations and the standards of nationally recognized organizations in this Part refer to the regulations or standards on the date specified and do not include any additions or deletions subsequent to the date specified.

Section 890.140 Repairs and Alterations

a) Existing Buildings.

1) In existing buildings or premises in which plumbing installations are to be altered, renovated or replaced, materials and methods shall meet or exceed the provisions of this Part.

2) Where the Department finds that compliance with all requirements of this Part would result in an undue hardship due to excessive structural or mechanical difficulty, or impracticability, a variance may be granted. The request for a variance must be submitted in writing to the Department for approval prior to installation. The request shall include an explanation of the hardship created by compliance with all requirements of this Part, and shall state the proposed method of installation. Where a variance is granted by the Department, it shall conform with the intent of this Part and shall ensure the optimum level of public health protection practicable.

b) New Buildings. Plumbing materials, methods and workmanship shall meet or exceed the provisions of this Part in all new buildings. No variance from this Part shall be allowed on new building construction.

c) Health and Safety. Where a health or safety hazard exists because of an existing plumbing installation or lack thereof, the owner or his agent shall install additional plumbing or make such corrections as may be necessary to abate the hazard or violation of this Part.

Section 890.150 Workmanship

a) All plumbing work performed shall comply with the provisions of this Part.

b) In the process of installing or repairing any part of a plumbing system, the floors, walls, ceilings, tile work, or any other part of the building or premises which must be changed, altered or replaced shall be left in a safe structural condition so as not to pose a health or safety hazard.

c) Exterior/interior openings through walls, floors, and ceilings shall have the annular space around pipes properly closed to prevent the entrance of mice, rats or other rodents. Exterior wall openings shall be made water-tight.

Section 890.160 Used Plumbing Material, Equipment, Fixtures

a) Previously used plumbing material, equipment and/or fixtures may be re-used for plumbing installations only if it complies with this Part at the time of the new installation.

b) Used pipe or fittings shall not be installed in a potable water system.

Section 890.170 Sewer and/or Water Required

a) Each building with a plumbing system which is intended for human habitation or occupancy shall have a connection to a public water and/or public sewer system or a connection to a private water supply constructed in accordance with the requirements of the Illinois Water Well Construction Code (77 Ill. Adm. Code 920) or the Surface Source Water Treatment Code (Title 77 Ill. Adm. Code 930), and a private sewage disposal system constructed to the requirements of the Illinois Private Sewage Disposal Code (77 Ill. Adm. Code 905). All installations shall also be in accordance with any additional applicable state and local laws, ordinances, rules and regulations and local codes.

b) For purposes of this section, each townhouse or rowhouse shall be treated as a separate building and shall have a separate connection to a public water system or a separate connection to a private water supply as required in Section 890.170(a) above.

c) Private Water Supply Interconnection. A private water supply shall not be interconnected with a public water supply unless it is located and constructed in accordance with the Water Well Construction Code (77 Ill. Adm. Code 920) and Water Well and Pump Installation Code (77 Ill. Adm. Code 915) and the public water is protected against backflow and back siphonage as specified in Section 890.1130.

d) All plumbing fixtures, drains, appurtenances, and appliances used to receive or discharge sanitary waste shall be connected to the drainage system of the building or premises in accordance with the requirements of this Part.

Section 890.180 Sewer and Water Pipe Installation

a) Trenching and Bedding. Trenches shall be of sufficient width to permit proper installation of the pipe. Where shoring is required, ample allowance shall be made in the width of the trench for working conditions, based on the materials and installation methods. Where trenches are excavated to a depth such that the bottom of the trench forms the bed for the pipe, solid and continual bearing between joints shall be provided and bell holes shall be provided at points where the pipe is joined. Where trenches are excavated to a depth such that the bottom of the trench does not form the bed for the pipe, the trench shall be backfilled to grade with sand or fine gravel placed in layers of six (6) inches maximum depth and compacted after each placement. The pipe shall not be supported on blocks. Where rock is encountered in trenching, it shall be removed to a point at least three (3) inches below the grade line of the trench and the trench shall be backfilled to grade with the sand tamped in place so as to provide a uniform bearing for the pipe between joints. The pipe shall not be allowed to rest on rock at any point. If soft materials of poor bearing qualities are found at the bottom of the trench, stabilization shall be achieved by over-excavating at least two (2) pipe diameters and refilling with fine gravel or sand or a concrete foundation. A concrete foundation shall be bedded and sand tamped in place so as to provide a uniform bearing for the pipe joints. All piping in the ground shall be laid on a firm bed for its entire length.

b) Backfilling. Until the crown of the pipe is covered by at least 18 inches of tamped earth, care shall be exercised in backfilling trenches to ensure that the pipe beneath is secure. Loose earth, free of rocks, broken concrete, frozen chunks or other rubble, shall be carefully placed in the trench in six (6) inch layers and tamped in place. Care shall be taken to thoroughly compact the backfill under and beside the pipe to ensure that the pipe is properly supported. Backfill shall be placed evenly on both sides of the pipe and tamped in a manner to retain proper alignment.

c) Breakage and Corrosion. Pipes passing under or through walls or floors shall be protected from breakage caused by stress or strain. Pipes passing under or through cinder, concrete or other corrosive material shall be protected from external corrosion, stress, or strain by a protecting sleeve or a wrap-on material. See Appendix B: Illustration AA.

d) Sleeves. In exterior walls or floors, the annular space between sleeves and pipes shall be filled or tightly caulked with a cold tar, asphalt compound, lead or other equally effective material. See Appendix B: Illustration AA.

e) Piping parallel to Footings. No piping shall be laid parallel to inside or outside footings/bearing walls closer than three (3) feet.

f) Depth. Piping installed parallel to footings or bearing walls shall not extend below the 45 degree bearing plane of the wall or footing.

Section 890.190 Piping Measurements

Except where otherwise specified in this Part, all measurements between pipes and between pipes and walls, etc., shall be made to the center line of the pipe.

Section 890.200 Operation of Plumbing Equipment

a) All plumbing equipment required by this Part shall be operated in the manner intended by the manufacturer. No alteration or modifications to plumbing fixtures, equipment and appurtenances which would negate designed safety fixtures shall be allowed. All plumbing systems shall be maintained in a functional, safe and sanitary condition. The owner of the facility shall be responsible for maintenance of the plumbing system.

b) No groundwater, roof drainage, discharge from footing tile drains or other storm water wastes shall be discharged into the sanitary drainage system.

SUBPART B: PLUMBING MATERIALS

Section 890.210 Materials

a) With the exception of faucets, grease traps, and gas and oil interceptors, all materials, piping, fittings, appliances, appurtenances and devices used in all plumbing systems shall be listed in Appendix A: Tables A1, A2, A3, A4, A5, A6 and A7 and shall conform to standards for use as approved by one or more of the organizations listed in Section 890.210(b) immediately following. All faucets, grease traps, and gas and oil interceptors used shall meet the requirements for such materials, appliances and appurtenances as provided in this Part.

b) Reference for Agencies and Organizations. Abbreviations used in Appendix A, Tables A1, A2, A3, A4, A5, A6, and A7, refer to the following agencies or organizations:

1) ANSI - American National Standards Institute; 1430 Broadway, New York City, New York 10018.

2) ARI - Air Conditioning and Refrigeration Institute; 1501 Wilson Boulevard, Arlington, Virginia 22209.

3) ASHRAE - American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.; 1791 Tullie Circle, NE, Atlanta, Georgia 30329-2305.

4) ASME - American Society of Mechanical Engineers; United Engineer Center, 345 East 47th Street, New York City, New York 10017.

5) ASSE - American Society of Sanitary Engineering; P.O. Box 40362, Bay Village, Ohio 44140.

6) ASTM - American Society for Testing and Materials; 1916 Race Street, Philadelphia, Pennsylvania 19103-1187.

7) AWWA - American Water Works Association; 6666 West Quincy Avenue, Denver, Colorado 80235.

8) CISPI - Cast Iron Soil Pipe Institute; Suite 419, 5959 Shallowford Road, Chattanooga, Tennessee 37421.

9) NSF - National Sanitation Foundation Testing Laboratory Inc.; 3475 Plymouth Road, P. O. Box 1468, Ann Arbor, Michigan 48106.

10) PDI - Plumbing and Drainage Institute; 1106 W. 77th Street, South Drive, Indianapolis, Indiana 46260-3318.

11) UL - Underwriter Laboratories, Inc.; 333 Pfingsten Road, Northbrook, Illinois 60062.

Section 890.220 Identification

a) Identification of Material. Each length of pipe, each pipe fitting, trap, fixture, device and appurtenance used in a plumbing system shall have cast, stamped or indelibly marked on it the maker's mark or name, the weight, type, class of product and the standard that applies.

Section 890.230 Safe Pan Material

a) Lead sheets for safe pans shall weigh at least four (4) pounds per square foot.

b) Copper sheets for safe pans shall weigh at least twelve (12) ounces per square foot.

SUBPART C: JOINTS AND CONNECTIONS

Section 890.310 Tightness

Joints and Connections. Joints and connections shall be gas-tight and water-tight.

Section 890.320 Types of Joints

a) Caulked joints. Caulked joints for (drain, waste and vent systems only) cast iron bell-and-spigot pipe shall be firmly packed with oakum or hemp and filled with molten lead at least one inch (1") deep and be firmly caulked not to extend more than one-eighth inch (1/8") below the rim of the hub. Paint, varnish, or other coatings shall not be permitted on the jointing material until after a plumbing inspector has been given the opportunity to test and approve or disapprove the joint. See Appendix C: Illustration A.

b) Threaded/Screwed Joints. Threaded joints shall conform to American National Taper Pipe Thread, ASME B.1.20.1-1983 (General Purpose). All burrs shall be removed; pipe ends shall be reamed or filed to size of the bore and all chips shall be removed. Pipe joints compound shall be insoluble in water and non-toxic.

c) Wiped Joints. Joints in lead pipe or fittings, or between lead pipe of fittings and brass or copper pipe ferrules, solder nipples, or traps shall be full-wiped joints. Wiped joints shall have exposed surface on each side of the joint at least three-fourths inch (3/4") and at least as thick as the material being joined. Wall or floor flange lead-wiped joints shall be made by using a lead ring or flange placed behind the joints at the wall or floor. Joints between lead pipe and cast iron, steel or wrought iron shall be made by means of a caulking ferrule, soldering nipple, or bushing.

d) Soldered Joints. The surface to be soldered shall be cleaned bright. The joints shall be properly fluxed (lead free) and made with approved lead free solder conforming to ASTM Standard B32-1989. Joints in copper water tubing shall be made with approved cast bronze or wrought copper pressure fittings, properly soldered together. All solders or flux containing more than 0.2% lead shall bear a warning label which states that the solder or flux is not approved for private or potable water use as required by Section 4 of the federal Hazardous Substances Act (15 USC 1263). Use of this product in the making of joints or fittings in any private or public potable water system is prohibited. No part of a DWV (drain, waste and vent) system shall be joined or fitted with a solder or flux containing more than 0.2% lead.

e) Flared Joints. Flared joints for plastic pipe and tubing and soft copper water tubing shall be made with approved fittings. The tubing shall be expanded with a proper flaring tool. See Appendix C: Illustration B.

f) Hot-Poured Joints. Hot-poured compound for clay or concrete sewer pipe shall not be water absorbent and when poured against a dry surface shall have a bond of at least 100 pounds per square inch (p.s.i.). All surfaces of the joint shall be cleaned and dried before pouring. If wet surfaces are unavoidable, a suitable primer such as oil or tar shall be applied. The compound shall not soften sufficiently to destroy effectiveness of the joint when subjected to a temperature of 160 degrees Fahrenheit, and not be soluble in any of the waste carried by the drainage system. Approximately 25 percent of the joint space at the base of the socket shall be filled with jute or hemp. A pouring collar rope or other device shall be used to hold the hot compound during pouring. Each joint shall be poured in one operation until the joint is filled. Joints shall not be tested until one (1) hour after pouring.

g) Precast Joints. Precast collars shall be formed in both the spigot and bell of the pipe in advance of use. Prior to making joint contact, surfaces shall be cleaned. When the spigot end is inserted in the collar, it shall bind before contacting the base of the socket.

h) Brazed Joints. Brazed joints shall be made by first cleaning the surface to be joined down to the base metal, applying flux approved for such joints and for the filler metal to be used, and making the joints by heating to a temperature sufficient to melt the approved brazing filler metal on contact. See Section 890.330(b). An extracted mechanical joint may be made in copper tube type K only for water distribution. The joint shall be made with a mechanical extraction tool and joined by brazing. To prevent the branch tube from being inserted beyond the depth of the extracted joint, depth stops shall be provided. This joint shall be for above ground use only.

i) Cement Mortar Joints. Except for repairs, cement mortar joints are prohibited.

j) Burned Lead (Welded). (For drain, waste and vent system only) Every burned (welded) joint shall be made in such manner that the two or more sections to be joined shall be uniformly fused together into one continuous piece. The thickness of the weld shall be at least as thick as the lead being joined.

k) Bituminized Fiber Pipe Joints. Joints in bituminized fiber pipe shall be made with tapered type couplings of the same composition as

the pipe. Joints between bituminized fiber pipe and metal pipe shall be made by means of an adaptor coupling caulked as required in Section 890.320(a) above.

1) Plastic Pipe Joints.

1) Every joint in plastic piping shall be made with approved fittings by either solvent welded or fusion welded connections, compression fittings, approved insert fittings, metal clamps and screws of corrosion resistant material, or threaded joints. See Exhibit G: Tables A1, A2, A3, A4 and A7 for approved pipe, fittings and solvent.

2) Joints and Fittings in Plastic Pipe. Potable water piping fittings and joints shall be in accordance with the manufacturer's recommendations subject to the following: See Appendix A: Table A7.

A) Polyethylene (PE) pipe shall be installed only with compression fittings, insert and clamp type fittings or thermal welded joints and fittings. All clamps shall be of corrosion resistant material. The inside diameter (I.D.) of any insert fitting shall not be less than the minimum allowable size for water service/distribution piping. (See Appendix A, Tables D, N and O, for minimum allowable sizes for water service/distribution piping.)

B) Polyvinyl chloride (PVC) pipe shall be installed with solvent welded or flanged joints only. The pipe shall not be threaded. Transition to metallic or other piping shall be made with the use of adaptor fittings. The fittings shall be molded from polyvinyl chloride. The primer and solvent cement used shall be in accordance with the manufacturer's recommendation for polyvinyl chloride piping.

C) Polybutylene (PB) pipe shall be installed only with insert and clamp type fittings, compression type, flanged type, or thermal welded joints and fittings. All clamps shall be of corrosion resistant material. The inside diameter (I.D.) of any insert fitting shall not be less than the minimum allowable size for water service/distribution piping. (See Appendix A, Tables D, N and O, for minimum allowable sizes for water service/distribution piping).

3) Joints in Plastic Drainage. Joints in plastic drainage piping or vent piping within a building shall be solvent welded. Threaded or flanged joints may be used with adaptor fittings. The solvent cement shall be specific for the type of piping material. O-ring expansion joints are acceptable if accessible.

m) Ground Joint Connections. Ground joint connections (when accessible) may be used on the inlet or outlet side of a fixture trap or within the trap seal. Ground joint connections shall not be used in any inaccessible drainage piping.

n) No-Hub Soil Pipe Joints. Joints for no-hub cast iron soil pipe shall be made with a neoprene gasket covered by a corrugated metal stainless steel shield secured by two (2) or more stainless steel bands or clamps. The shield and clamps shall be corrosion resistant and homogeneous throughout. The joint and materials shall comply with ASTM C564-78 and CISPA 310-78.

o) Compression Type Joints.

1) Compression type joints for hub and spigot cast iron soil pipe shall be made with neoprene insert gaskets in accordance with ASTM C564. The pipe shall comply with the specifications contained in ASTM A-74 with regard to hub and spigot dimensions and tolerances. See Appendix C: Illustration C.

2) Compression type joints for copper water tube or brass tube shall be made with brass ferrules and ground joint connections.

p) Grooved Type Mechanical Couplings.

1) Cut grooved type mechanical couplings, fittings and valves used on standard weight galvanized steel pipe, cast iron pipe or ductile iron pipe shall comply with the grooving dimensions of the AWWA specifications C606-78, limited to water distribution piping and downspout pipe above ground.

Gaskets for use with potable water piping shall be fabricated from material that is non-toxic, durable and impervious.

2) Rolled grooved type mechanical couplings, fittings and valves used on standard weight galvanized steel pipe or type K or L copper tubing shall comply with the manufacturer's standard, limited to water distribution piping above ground. Fittings, couplings and valves shall be compatible with the pipe material. Transition adapters shall be dielectric type.

Gaskets for use with potable water piping shall be fabricated from material that is non-toxic, durable and impervious.

Section 890.330 Special Joints

a) Copper Tubing to Screwed Pipe Joints. Joints from copper tubing to threaded pipe shall be made by the use of a cast bronze or wrought

copper adaptor fitting. The joint between copper tubing and the fitting shall be soldered or, if flared, must be accessible.

b) Welding or Brazing. Brazing or welding shall be in accordance with the provisions of Section 6 of the Code for Pressure Piping, ANSI B.3.1 and ANSI B.3.L.1.

c) Slip Joints. In drainage and water piping, slip joints may be used on the inlet side of the trap or in the trap seal, and on the exposed fixture supply. Slip joints shall not be used in any inaccessible piping. Valves intended to be installed by being pushed onto copper, mechanically secured by metal tabs which grip the piping and seal it with o-rings, and are capable of withstanding a water pressure of 150 pounds per square inch and a temperature of 250 degrees F are permitted.

d) Expansion Joints. Expansion joints must be accessible and may be used where necessary to provide for expansion or contraction of the piping. The expansion joint material shall conform with the type piping on which it is installed.

e) Compression type couplings shall not be used in unexposed water piping except for water services, water meter yokes and stop box connections.

f) Grooved Type Mechanical Couplings. Grooved type mechanical couplings, in accordance with Section 890.320(q), may be used in potable water and roof drain piping. Such couplings shall not be used in waste, soil or vent piping.

g) Plastic Pipe to Non-Plastic Pipe Joints. Joints between plastic pipe and non-plastic pipe shall be made only by one of the following methods:

1) Pressure piping.

A) Approved insert fittings (in accordance with Appendix A, Tables A1, A2, A3 and A4).
B) Threaded adaptors.
C) Flanges.
D) Flared fittings.

2) Non-pressure piping - Drain Waste Vent (DWV)

A) Caulked lead joints with caulked adaptors.
B) No-hub soil pipe shielded couplings with approved adaptor having a raised bead.
C) Compression type joints for hub and spigot cast iron pipe.
D) Threaded adaptors.

Section 890.340 Use of Joints

a) Clay Sewer Pipe. Joints in vitrified clay pipe or between such pipe and metal pipe shall be made with a neoprene gasket and stainless steel bands or as provided in Section 890.320(f), (g), or (o), if applicable.

b) Concrete Sewer Pipe. Joints in concrete sewer pipe or between such pipe and metal pipe shall be made with a neoprene gasket and stainless steel bands or as provided in Section 890.320(f), (g) or (o), if applicable.

c) Cast Iron Pipe. A joint in cast iron water supply pipe shall be made in accordance with Section 890.320(a) and (b) or shall be a mechanical joint in accordance with ANSI A21.12-71. Joints in cast iron soil pipe shall be made in accordance with Section 890.320(a), (b), (p) or (q).

d) Screw Pipe to Cast Iron. Joints between wrought iron, steel, brass, or copper pipe, and cast iron pipe shall be either caulked or threaded joints which are made as provided in Section 890.320 (a) or (b) and shall be made with proper adaptor fittings.

e) Lead to Cast Iron, Wrought Iron or Steel. Joints between lead and cast iron, wrought iron, or steel pipe shall be made by means of wiped joints to a caulking ferrule, soldering nipple, or brushing as provided in Section 890.320(c).

f) Copper Water Tube. Joints in copper tubing shall be made with cast bronze or wrought copper pressure fittings, properly soldered or brazed, or by means of compression or flared joints as provided in Sections 890.320(d), (e), (h) and (p)(2). Flared joints and compression fittings shall not be installed underground except for water services, water meter yokes and stop box connections.

g) Plastic Pipe. Joints between plastic pipe and non-plastic material shall be made only with an appropriate type adaptor as provided in Section 890.320(m) and 890.330(g).

1) Plastic-Commingling. There shall be no commingling of plastic materials within the same plumbing system except through the use of proper adaptors.

2) Plastic Pipe. Plastic pipe shall not be installed in any tunnel or chase that contains uninsulated hot water, hot air or steam piping which causes the ambient air temperature in the tunnel or chase to exceed 180 degrees F.

h) Building Sewer Connections. An elastomeric coupling seal conforming to ASTM C 425 (1988), ASTM C 443 (1985), ASTM C 564 (1988), ASTM D 4161 (1986), ASTM F 477 (1985), or ASTM D 3139 (1989), ASTM D 3212 (1989), or ASTM D 412 (1980) tests may be used to adapt any two (2) building sewer pipes for different materials or size changes. The flexible couplings shall be attached to the pipe with stainless steel clamps or bolts. The manufacturer's recommended method of installation shall be followed.

Section 890.350 Unions

Unions may be used in the drainage and venting system when accessibly located above ground. Unions shall be installed in a water supply system within five (5) feet of regulating equipment, water heaters, water conditioning tanks, water conditioning equipment, pumps, and similar equipment which may require service by removal or replacement. Where small equipment may be unscrewed, only one union shall be required.

a) Drainage System. Unions may be used in the trap seal and on the inlet and outlet side of the trap. Unions shall have metal to metal seats except that plastic unions may have plastic to plastic seats.

b) Water Supply System. Unions in the water supply system shall be metal to metal with ground seats, except that plastic to metal unions may utilize durable, non-toxic, impervious gaskets. Fittings between dissimilar metals shall be dielectric type.

Section 890.360 Water Closet and Pedestal Urinal

Fixture connections between drainage pipes and water closets, floor outlet service sinks and pedestal urinals, and earthenware trap standards shall be made by means of brass, copper, hard lead, plastic, or iron flanges; caulked, soldered, screwed or solvent welded to the drainage pipe. Flanges of hard lead, plastic and iron flanges for no-hub or compression joints shall be secured to the floor. The connection shall be bolted, with a gasket, washer or setting compound, between the earthenware and the flange. The floor flange shall be set on an approved firm base. The use of putty or non-drying plumber's putty manufaccured specifically for plumbing installation is acceptable.

Section 890.370 Prohibited Joints and Connections in Drainage Systems

a) Drainage System. Any fitting or connection which has an enlargement, chamber, or recess with a ledge, shoulder, or reduction of pipe area that offers an obstruction to flow through the drain is prohibited. No fitting or connection that obstructs flow shall be used. In existing buildings only a flow control valve or device may be connected to the fixture drain and shall not be considered as an

obstruction. The enlargement of a three (3) inch closet bend or stub to four (4) inches shall not be considered an obstruction.

Section 890.380 Increasers and Reducers

Different Sizes. Where different sizes of pipes or pipes and fittings are to be connected, the approved proper size increasers, reducers or reducing fittings shall be used between the two sizes.

SUBPART D: TRAPS AND CLEANOUTS

Section 890.410 Traps

a) Fixture Traps. All directly connected plumbing fixtures, except those having integral traps, shall be separately trapped by a water-seal trap, placed as close to the fixture outlet as possible.

1) A kitchen sink with up to three basins may be installed on one trap if one compartment is not more than six (6) inches deeper than the other and the waste outlets are not more than 30 inches apart. See Appendix D: Illustration A.

b) Distance of Trap to Fixture. The developed length from the fixture outlet to the trap weir shall not exceed 24 inches, except when an interceptor is used as a trap, it shall be located as close as possible to the fixture. The maximum developed length from the fixture outlet to the inlet of the interceptor shall not exceed five (5) feet. See Appendix D: Illustration B. The standpipe inlet for an automatic clothes washer shall not exceed 48 inches above the weir of a trap.

c) Trap Size. The size of trap for a fixture shall comply with Appendix A: Table E for minimum size of traps. No trap shall be larger than the fixture drain to which it is connected or the drainage pipe into which it discharges.

d) Type of Traps. Traps shall have a uniform and smooth interior, and shall have no partitions or movable parts. The trap seal shall be non-adjustable. See Appendix D: Illustration C.

e) Drum Traps. Drum traps shall be three (3) or four (4) inches in diameter and provided with a fixed water seal of at least two (2) inches. The trap cleanout shall be one size less than the trap diameter.

f) Trap Seal. Each trap shall have a water seal of two (2) inches except where a deeper seal is required to prevent the loss of the trap seal by evaporation. Where loss of the trap seal may occur due to evaporating, one of the following shall be used:

1) Vegetable oil may be added to the trap.

2) A deeper seal not to exceed eight (8) inches may be used.

3) An automatic trap primer may be used.

g) Trap Cleanouts

1) Each fixture trap, except those cast integrally or in combination with fixtures in which the trap seal is readily accessible or except when a portion of the trap is readily removable for cleaning purposes, shall have an accessible trap screw of ample size protected by this water seal. (Exception: See Rule 890.410(g)(4)). The screw shall be of brass or other non-corrosive type material. See Appendix D: Illustration D.

2) Trap cleanouts shall be made gas and water tight with a threaded cleanout plug and approved washer.

3) When a P-trap is used on a bath waste, it shall be directly below the tub overflow. The overflow shall be fastened to the tub by means other than the face plate.

4) A P-trap on a plumbing fixture which is not accessible may be installed without a cleanout plug or having a portion of the trap readily removable, provided there is access to a clean out within three (3) feet of the trap.

h) Trap Level and Protection. Traps shall be set level with respect to their water seals and, where necessary, they shall be protected from freezing.

i) Traps Underground. Underground traps shall be provided with accessible and removable cleanouts, except for separate "P" traps into which floor drains, urinals and other fixtures with removable drain strainers discharge.

j) Building (House) Traps. No trap shall be installed at the base of a soil or waste stack or in a building drain.

k) Prohibited Traps. Use of the following traps is prohibited (see Appendix D: Illustration E):

1) Traps which depend upon the action of movable parts for their seal.

2) Full "S" traps. Exception: Water closet and similar fixtures which depend on self-siphonage for their proper operation.

3) Bell traps.

4) Crown vented traps.

5) Unvented running traps.

6) Fixtures with concealed interior partitioned traps. Exception: Fixtures with integral traps constructed of vitrified earthenware and penal institutional fixtures with integral traps constructed of ferrous material.

l) Double Trapping. No fixture shall be double trapped.

Section 890.420 Pipe Cleanouts

a) Location of Cleanouts Within a Building Drain

1) Cleanouts shall be not more than 50 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines of four (4) inches or less size. Cleanouts shall be not more than 100 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines of over four (4) inches to ten (10) inches size. Cleanouts shall not be more than 150 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines exceeding ten (10) inches in size. For underground drainage lines exceeding ten (10) inches in size, manholes instead of cleanouts shall be provided and shall be located at intervals of not more than 150 feet.

2) When it is necessary to conceal a cleanout plug, a readily accessible covering plate or access door shall be provided.

3) A test tee at the base of the stack may be used as a cleanout.

4) A full size cleanout shall be located within five (5) feet of the building foundation, inside or outside, in direct line with the building drain and sewer.

b) Change of Direction. A cleanout or manhole shall be installed at each change of direction of the horizontal building drainage system greater than 60 degrees; the total of the fittings between cleanouts or manholes shall not exceed 120 degrees. A manhole within a building shall be provided with an iron cover which shall be securely bolted in place and made gas and water-tight with a soft metallic gasket.

c) Underground Drainage. When installed on an underground drain, cleanouts shall be extended to or above the finished grade level; or may be extended to outside of the building. See Appendix D: Illustration F.

d) Concealed Piping. Cleanouts on concealed piping shall be extended through and terminate flush with the finished wall or floor; or pits or chases may be left in the wall or floor, provided they are of sufficient size to permit removal of the cleanout plug and cleaning of the system. See Appendix D: Illustration G.

e) Base of Stacks. A cleanout shall be provided at, or no more than four (4) feet above, the base of each vertical waste or soil stack.

f) Buildings with Slab Floors. For buildings with a slab floor or with less than a 36 inch crawl space under the floor or where a stack cleanout is not accessible, one of the following shall be provided in lieu of a cleanout at the base of the stack:

1) The building drain shall be extended to the outside of the building and terminated in an accessible cleanout.

2) An accessible two (2) way cleanout shall be installed in the building drain downstream from the stack provided that no other drainage pipe connects to such pipe inside the walls of the building unless it has its own cleanout at the base of the stack or extended outside the building.

g) Direction of Flow. Every cleanout shall be installed so that the cleanout opens in a direction opposite to the flow of the drainage line or at right angles thereto, except as permitted in Section 890.420(f).

h) Cleanout Plugs. A cleanout shall not have a plumbing fixture installed in it or be used as a floor drain.

i) Cleanouts shall be of the same size as the pipe they serve up to a maximum of six (6) inches, and at least six (6) inches for larger pipe.

j) Cleanout Clearance. All cleanouts shall have a clearance of 18 inches for the purpose of rodding. See Appendix D: Illustration H.

Section 890.430 Cleanout Equivalent

Fixture Trap. A fixture trap, readily removable and without disturbing concealed plumbing or requiring fixture removal, is acceptable as a cleanout

equivalent, if there is no more than one (1) 90 degree bend on the line to be rodded. A water closet is not considered a cleanout equivalent.

Section 890.440 Acid-Proof Traps

Where a vitrified clay or other brittleware, acid-proof trap is installed underground, it shall be embedded in concrete to a thickness of six (6) inches from the bottom and side of the trap.

SUBPART E: INTERCEPTORS - SEPARATORS AND BACKWATER VALVES

Section 890.510 Grease Interceptor Requirements

Plumbing systems for institutions or commercial establishments in which grease, fats, culinary oils, or similar waste products from kitchens or food processing areas are wasted, or in which grease, fats, or culinary oils are wasted in connection with utensil, vat, dish, or floor cleaning processes, shall include grease interceptors. All waste lines and drains carrying grease, fats, or culinary oil, in the above type establishment shall be directed to one or more interceptors. See Appendix E: Illustrations A and B.

a) All required grease interceptors shall comply with the following:

1) Material and Covers. Grease interceptors shall be constructed of durable, corrosion-resistant materials and shall have water-tight covers securely fastened in place.

2) Minimum Size. A grease interceptor installed on the same floor as the fixture shall have one-half the liquid holding capacity of the fixture. A grease interceptor located on a floor below the fixture shall have sixty percent of the liquid holding capacity of the fixture. To determine the liquid holding capacity in gallons of a plumbing fixture, multiply the length by the width by the height in inches, and divide by 231. Where two (2) or more sinks or receptacles are connected to an interceptor the liquid holding capacity shall be based on the combined volume of the fixtures served.

3) No grease interceptor shall receive the discharge from a food waste disposal or a commercial dishwashing machine.

4) The flow rate of the interceptor shall be sufficient to handle the maximum demand of the connected system.

5) All interceptors shall be installed in an accessible location so as to provide removable of the lid and internal contents.

6) All interceptors shall be designed and installed with proper venting so that they do not become air bound. See Appendix E: Illustration C.

b) Prohibited Type. Water cooled grease interceptors are prohibited.

Section 890.520 Gasoline, Oil and Flammable Liquids

Interceptors/Separators are required in the following circumstances:

a) Gas and Oil Interceptors. Commercial vehicle repair garages and gasoline stations with grease racks or pits and all facilities which generate oil and/or flammable waste shall be provided with floor drains. A minimum of one (1) floor drain per working stall or one (1) floor drain for each 500 square feet shall be installed. Where trench drains are used to carry wastes to the gas/oil interceptor, the trench drain shall extend the entire length of the work (stall) area and have a trapped and vented opening no less than every 40 lineal feet. Floor drains for such areas shall be provided with an interceptor or a series of three (3) basins before discharging into the building drainage system, and shall be of cast iron, steel, or equally durable fiberglass materials suitable for gas and oil. Fiberglass interceptors shall not be used for receiving any substance other than gas and oil.

Each interceptor or basin shall be provided with a heavy metal cover which shall be bolted into place and made gas and water-tight. Each interceptor and, if provided with separate compartments, each compartment and basin shall be provided with a vent of at least two (2) inches. Two (2) or more vents may be connected to a header which shall be six (6) inches or higher than the lowest floor drain served. The vent shall extend independently to the outer air. The inlet of the interceptor or the first basin shall be trapped except when floor drains are individually trapped. Floor drains above the level of the interceptor or basins shall connect to a separate stack vent.

1) Interceptors must be maintained to prevent loss of gas, oil, etc. Interceptors utilizing an automatic draw off feature must install a separate U.L. approved underground storage tank or storage tank integral with the interceptor.

2) Minimum Dimension. Oil interceptors shall have a depth of at least two (2) feet below the invert of the discharge drain.

3) The oil interceptor shall have at least a 12 inch water seal with a minimum 90 percent efficiency rating or have a minimum of an 18 inch water seal.

4) Motor Vehicle Servicing. Interceptors are required for motor vehicle servicing areas. The minimum size interceptor shall be six (6) cubic feet (45 gallons) for the first 100 square feet of garage floor area plus one (1) cubic foot for each additional 100 square feet to be drained into the interceptor. (One (1) cubic foot equals seven and one-half (7 1/2) gallons.)

5) Storage garages, enclosed parking garages, fire stations, emergency vehicle garages, and similar places are required to have floor drains with a gas and oil interceptor. Single family residence garages with floor drains shall have a gas and oil interceptor. The minimum size interceptor shall be six (6) cubic feet (45 gallons) for the first 500 square feet of floor area plus one (1) cubic foot per each additional 500 square feet to be drained into the interceptor.

b) Catch Basins. In all motor vehicle wash racks, drainage shall discharge into a water-tight catch basin at least 36 inches in diameter, or three (3) feet by two and one-half (2 1/2) feet (rectangular shape). The bottom shall not be less than 27 inches below the invert of the outlet pipe. The outlet pipe shall be trapped with a catch basin trap and shall be of cast iron or schedule 40 plastic with a seal of at least six (6) inches and a cleanout of at least four (4) inches.

c) Interceptor for Special Waste. Before installing any interceptor for any other flammable or special wastes, a drawing including all pertinent information shall be submitted to the Department for its approval.

Section 890.530 Sand, Bottle and Slaughter Houses

Where wastes which will either settle or float are produced (Example: oil or grease from meat packing operation, bottling establishments, heavy solids, etc.,) shall have a interceptor installed which complies with Section 890.510(a). See Appendix E: Illustration D.

Section 890.540 Laundries

Interceptors. Commercial laundries shall be equipped with an interceptor having a removable wire basket or similar device that will prevent materials detrimental to the sewage system from passing into the system. See Appendix E: Illustration E.

Section 890.550 Backwater Valves - Sanitary System and Storm System

Backwater valves shall be installed in the building storm drain or the building drain to prevent backflow into the building, where backflow of storm water or sewage could occur.

a) Fixture Branches. Backwater valves may be installed in the branches of the building drain which are below grade.

b) Diameter. Backwater valves, when fully opened, shall have a capacity at least that of the pipes in which they are installed.

c) Location. Backwater valves shall be installed to be accessible. See Appendix E: Illustration F.

d) All backwater valves shall conform to ASME/ANSI A 112.14.1-1986.

e) Backwater valves shall have all bearing parts of corrosion resistant material.

SUBPART F: PLUMBING FIXTURES

Section 890.610 General Requirements - Material and Design

a) Quality of Fixtures: Plumbing fixtures shall be of approved material and design (see Appendix A, Tables A5 and A6).

b) Used plumbing material, equipment and fixtures for plumbing installations shall comply with this Part.

c) Any plumbing equipment condemned by the Department because of wear, damage, defects or sanitary hazards shall not be used in a plumbing system.

Section 890.620 Overflows

a) Design. When any fixture is provided with an overflow, the waste piping shall be so designed that the standing water in the fixtures cannot rise in the overflow when the stopper is closed or remain in the overflow when the fixture is emptied.

b) Connection. The overflow pipe from a fixture shall be connected on the house or inlet side of the fixture trap, except that overflows of flush tanks may discharge into the water closets or urinals served by them. No overflow shall be connected to any other part of the drainage system.

Section 890.630 Installation

a) Cleaning. Plumbing fixtures shall be installed in a manner to afford easy access for cleaning.

b) Securing Fixtures. Floor outlet fixtures shall be secured by screws or bolts.

c) Wall-Hung Bowls. Wall-hung water closet and urinal bowls shall be rigidly supported by a concealed metal supporting member so that no strain is transmitted to the closet connection.

d) Setting. Plumbing fixtures and traps shall be set level and in a true alignment.

e) Water Supply Connection. Hot water shall be supplied to all plumbing fixtures which need hot water for their proper use and function. All mixing faucets and single lever faucets shall have both hot and cold water connected to them with the hot water supply on the left side of the faucet. Further, no mixing faucet of standard manufacture shall be allowed that will permit internal modification for cross piping of hot and cold water connections. Each lavatory and sink faucet shall have supply pipes which are accessible.

f) Improper Location. Piping, fixtures, or equipment shall not be located or installed in such a manner as to interfere with the normal operation of windows, doors, or other exit openings. Plumbing fixtures shall be installed in an area where there is sufficient room for the fixture to be used for its intended purpose.

g) Surrounding Materials. Where water closets or urinals are installed for public use, the flooring under the fixture base extending to at least 18 inches from the front and both sides of the water closet or urinal, and extending from the back of the water closet or urinal to the wall, shall be of non-absorbent material.

Section 890.640 Prohibited Fixtures

a) Drinking fountains shall not be installed in public toilet rooms.

b) Fixed wooden, concrete, cement or tile wash trays or sinks shall not be installed in any restaurant or commercial food establishment.

c) No sheet lining shall be added to any existing bath tub in a building designed or used for human habitation.

Section 890.650 Water Closets

a) Public Use.

1) Water closet bowls for public use shall be the elongated type and the seat shall be an antimicrobial plastic open-front seat. Exception: Water closet bowls for public use may have closed front seats provided the seat is encased with a continuous plastic sleeve capable of providing a clean surface for every user.

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2) The activating handle, button or mechanism of the flush valve shall be at least 22 inches above the overflow rim of the bowl. Exception: The activating handle, button or mechanism for water closets installed to meet the "Illinois Accessibility Code" shall be at least ten (10) inches above the overflow rim of the bowl.

3) Fixtures for the physically disabled shall comply with the rules of the Capital Development Board entitled "Illinois Accessibility Code" (71 Ill. Adm. Code 400).

4) In nurseries, schools and other similar places where water closets are provided for the use of children under five (5) years of age, water closets shall be of size and height suitable for the children's use.

5) Water closets designed for institutional use may be used in intensive care facilities and intensive coronary care facilities provided the water closet swings only horizontally and has an integral trap. A water closet flushometer shall be used to flush the fixture. The plans and specifications shall be submitted to the Department for approval prior to installation, and such approval shall be in writing from the Department provided the above requirements are met.

b) Water Closet Tanks. Water closet tanks shall have a volume sufficient to properly flush the water closet bowls with which they are connected.

c) Ball cocks. Ball cocks for flush tanks shall be of the anti-siphon type, properly installed, and have a provision for trap refill.

d) Flushing Device. The flush valve seat in all water closet tanks shall be one (1) inch or more above the flood level rim of the water closet bowl, with the exception of one-piece water closets per ANSI Standard A.112.19.2M-1982.

e) Flushometer Valve. Flushometer valves shall be installed so that they are readily accessible for repair. When the valve is operated, it shall complete the cycle of operation automatically, opening fully and closing completely under the service pressure. At each operation the valve shall deliver water in sufficient volume and at a rate that will thoroughly flush the fixture and refill the fixture trap. Means shall be provided for regulating flush valve flow. Protection against backflow shall be provided by an approved vacuum breaker installed on the discharge side of the flushing valve. The bottom of the vacuum breaker, or the critical level line shown on the vacuum

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breaker, shall be at least four (4) inches above the overflow rim of the bowl (See Section 890.1140(a) and (b)). Not more than one water closet shall be served by a single flushometer valve.

f) Seats. Water closets shall be equipped with seats of smooth non-absorbent material. All seats of water closets provided for public use shall be an antimicrobial plastic material and an open-front style, except closed-front seats may be provided if the seat is encased with a continuous plastic sleeve ensuring a clean surface for every user. No water closet seat shall be more than one and one-half (1 1/2) inches thick. Exception: Facilities for the physically disabled shall comply with the "Illinois Accessibility Code."

g) A flushometer tank (with pressurized flushometer valve in accordance with ASSE 1037-1986) shall be used only with a water closet bowl specifically designed for that type tank/flushing device (i.e., in accordance with ANSI Standard A112.19.6-1988) and where the flow pressure at the fixture meets the manufacturer's minimum recommendations.

h) Water closets which rely on substances other than water for proper operation shall comply with requirements of the "Private Sewage Disposal Code" (77 Ill. Adm. Code 905). Privies and chemical toilets shall not be used inside any building.

i) Bidet. A bidet shall be equipped with hot and cold water. An atmospheric vacuum breaker shall be installed on the discharge side of the flushing valve. The bottom of the vacuum breaker, or the critical level line shown on the vacuum breaker, shall be at least four (4) inches above the overflow rim of the bidet.

j) Prohibited Water Closets. Hopper-style water closets and water closets with concealed couplings or submerged side inlets are prohibited. See Appendix F: Illustration A.

Section 890.660 Urinals

a) Automatic Flushing Tank.

1) Tanks flushing more than one (1) urinal shall be automatic, shall provide a sufficient volume of water to flush all urinals simultaneously, and shall flush at least four (4) times per hour. One automatic flushing tank may serve no more than three (3) washout urinals.

2) Float Valves. Float valves or ball cocks, if provided for flushing tanks, shall be of the anti-siphon type and of sufficient capacity to refill the trap.

b) Urinal Flush Valves. No valve shall be used to flush more than one (1) blow-out, siphon-jet or pedestal urinal. The water supply line to each urinal flush valve shall be as required by the manufacturer, but not less than three-fourths (3/4) inch. Protection against backflow shall be provided by an approved vacuum breaker. See Sections 890.1130(a), (b), (c) and 890.1140.

c) Trough urinals are prohibited.

Section 890.670 Strainers and Fixture Outlets

a) Strainers. All plumbing fixtures other than water closets, urinals with integral traps, and any sink outlet having a disposal unit shall be provided with a strainer. A pop-up waste shall be considered a strainer.

b) Bathtubs - Waste Outlets. The waste outlet for a bathtub shall have a strainer or stopper and shall have an outlet at least one and one-half (1 1/2) inches in diameter.

Section 890.680 Lavatories

a) Waste Outlets. Wastes shall have a strainer or stopper and have a waste outlet at least one and one-quarter (1 1/4) inches in diameter.

b) Lavatory Faucets. All lavatory faucets shall have air gaps as specified in Appendix A: Table C.

c) Self-closing faucets on lavatories shall be adjusted to remain open for a minimum of 15 seconds.

d) Fixture Calculation. Eighteen (18) lineal inches of wash sink or eighteen (18) inches of a circular basin, when provided with water outlets for such space, shall be considered equivalent to one lavatory. (See Appendix F: Illustration B.)

Section 890.690 Shower Receptors and Compartments

a) Shower Installation. All shower compartments, except those built directly on a slab floor or having receptors constructed of precast stone, terrazzo, concrete, molded stone, or molded fiberglass, shall have a lead, copper, ABS, PVC or fiberglass shower pan. All sides of the shower pan shall turn-up at least two (2) inches above the finished shower floor level. Precast molded receptors shall have a minimum of a one-quarter (1/4) inch thick flange. Traps shall be constructed so that the pan is fastened to the trap at the seepage entrance, making a water-tight joint between the pan and the trap.

Shower receptacle waste outlets shall be at least two (2) inches in diameter and have a removable strainer.

b) Water Temperature Safety. All shower compartments and shower-bath combinations shall be provided with an automatic safety water mixing device to prevent sudden unanticipated changes in water temperature or excessive water temperatures. The automatic safety water mixing device shall be thermostatically controlled and designed with a temperature limit/stop setting to prevent immediate temperature changes and prevent temperatures in excess of one hundred fifteen degrees F (115 degrees F.), plus or minus two degrees F. Multi-shower units may be controlled by a master automatic safety water mixing device. A hot water heater thermostat is not an acceptable alternative water temperature control device.

c) Dimensions. Single family shower compartments or stalls shall have at least 1,024 square inches outside dimension (O.D.) floor area and shall be at least 32 inches in shortest outside dimension. All other shower compartments or stalls shall have no less than 1,296 square inches outside dimension floor area and shall be at least 32 inches in shortest outside dimension.

d) Materials. Shower walls shall be constructed of durable, smooth, non-absorbent, non-corrosive, and waterproof materials, such as fiberglass, enameled metal, plastic sheeting, etc. All shower compartments or stalls shall have a slip resistant floor (bottom) surface.

e) Public or Institution Showers. Floors of public shower rooms shall be drained so that no waste water from any bather will pass over areas occupied by other bathers. This will not prohibit the use of column showers.

Section 890.700 Sinks

a) Waste Outlets. Kitchen sinks shall be provided with waste outlets at least one and one-half (1 1/2) inches in diameter. Other special purposes sinks such as bar sinks, lab sinks, and dipper wells may have smaller waste outlets. Waste outlets shall be of the flat or basket (cup) strainer type. No special use sink shall be substituted for kitchen purposes.

b) Food Grinders. Sinks in which food grinders are installed shall have a waste opening inlet for the food grinder at least three and one-half (3 1/2) inches in diameter.

Section 890.710 Food Waste Disposal Units

a) Installation. Food waste disposal units shall be trapped separately from any other fixture or compartment and shall be properly vented. Dishwashers shall not discharge into food waste disposal units. Units may have either automatic or hand-operated water supply control. See Section 890.1130(a), (b) and (c).

b) Commercial-Type Grinders. Commercial-type food grinders shall be provided with a waste line at least two (2) inches in diameter. See Appendix F: Illustrations C and D.

Section 890.720 Drinking Fountains

a) Design and Construction. Drinking fountains shall conform to the standard Specifications for Drinking Fountains (ARI 1010-1985 or ASME/ANSI A.112.19.2-1982). No modification of the mouth guard or nozzle shall be made. See Appendix F: Illustration E.

b) Protection of the Water Supply.

1) All drinking fountain nozzles, including those which may at times extend through a water surface, with an orifice not greater than seven-sixteenths (7/16 or 0.440) of an inch diameter or 0.150 square inches area, shall be placed so that the lower edge of the nozzle orifice is at an elevation at least three-quarters (3/4) of an inch above the flood level rim of the receptacle.

2) The three-quarter (3/4) inch elevation shall also apply to nozzles with more than one orifice, provided that the sum of the area of all orifices shall not exceed the area of a circle seven-sixteenths (7/16) of an inch in diameter or shall not exceed 0.150 square inches area.

3) The nozzle shall be set at an angle from vertical such as to prevent the return of water in the jet to the orifice.

c) Material. The fountain shall be constructed of impervious materials such as vitreous china, porcelain, enameled cast iron, stainless steel, or other metals or stoneware. See Section 890.610.

d) Flow Regulator. The water supply for the drinking fountain shall be provided with an adjustable valve fitted with a loose key stop or an automatic valve regulating the rate of flow of water through the fountain so that the valve manipulated by the user of the fountain will merely turn the water on or off.

e) Installation and Location. Drinking fountains shall not be installed as an integral part of or connected to any other plumbing fixture, such as a lavatory or sink, nor shall a drinking fountain be installed in a restroom or toilet room, except those in correctional facilities.

f) Substitution. Whenever a drinking fountain is required by this Part, bottled drinking water or a water dispensing faucet (water station) may be substituted for a drinking fountain, provided it is readily accessible to the public.

Section 890.730 Floor Drains

Trap and Strainer. Floor drains shall be trapped and have a minimum water seal of two (2) inches, and shall be provided with a removable strainer. The open area of the strainer shall be at least two-thirds (2/3) of the area of the drain line to which it connects. See Appendix F: Illustration F.

Section 890.740 Kidney Dialysis Machines

a) Water Supply Inlet. The water supply inlet to kidney dialysis equipment shall have a reduced pressure principle backflow preventer assembly conforming with ASSE Standard 1013 or a fixed air gap.

1) A portable dialysis unit or machine must have a reduced pressure principle backflow preventer assembly installed on the water supply inlet on the unit.

2) Stationary dialysis equipment within a facility shall require, at the filter room or the dialysis machines, a reduced pressure principle backflow preventer assembly on the water supply or a water supply with a fixed air gap.

b) Discharge. The discharge for each dialysis unit or machine, portable or stationery, shall be provided with an individual indirect waste connection to the sanitary drainage system. Each stand pipe shall be individually trapped and vented.

Section 890.750 Whirlpool Bathtubs

Whirlpool bathtubs shall be installed so that the tub, pump, jets and pump tubing drain completely after each use. The pump shall be located above the weir of the whirlpool tub trap.

Section 890.760 Pressure Type Water Treatment Units

Wash water and rinse water drain lines from water softeners and other types of water treatment units shall discharge through a vertical air gap at least

twice the diameter of the pipe. Any water softening unit which depends on a venturi created by the flow of water from the water supply line to the softener, for the purpose of siphoning brine solution for regeneration, shall not be required to have a backflow preventer on the water supply line. All other types (those that depend on internal check valves to prevent backflow and/or have the inlet supply of water stopped during regeneration) shall have a double check valve backflow preventer assembly installed on the inlet water supply line.

Section 890.770 Dishwashing Machines

a) Domestic Dishwasher (Private Residence). When a domestic dishwashing machine drain line is connected to the house side of a trap from a sink, the drain from the dishwasher shall be carried up to the underside of the spill rim of the sink. Dishwashing machines shall discharge separately into a trap or tail piece of the kitchen sink and shall not connect to the food waste disposal unit.

b) Water Supply Connection. The water supply to commercial dishwashing machines shall be connected through an air gap or by means of proper backflow protection.

c) Commercial dishwashing machines shall indirectly discharge to a proper receptor connected to the drainage system or as permitted in Section 890.1010(a).

d) Hot Water. Commercial dishwashing machines or similar dishwashing equipment using hot water for sanitizing shall be provided with a supply of water at 180 degrees F., in accordance with Section 750.830 of the "Food Service Sanitation Code" (77 Ill. Adm. Code 750).

Section 890.780 Garbage Can Washers

a) Water Supply Connection. The water supply to garbage can washers shall be connected through an air gap or by means of proper backflow protection in accordance with Sections 890.1130 and 890.1140.

b) Discharge. Garbage can washers shall not discharge through a trap serving any other device or fixture.

c) Baskets. The receptor receiving the waste water from garbage can washing shall be provided with a basket, strainer or similar device to catch large solid waste particles, thereby preventing their discharge into the building drainage system.

d) Grease Interceptor. The discharge from a garbage can washer shall be directed to a grease interceptor. See Section 890.510.

Section 890.790 Laundry Trays and Drains

a) Waste openings. Each compartment of a laundry tray shall be provided with a waste opening at least one and one-half (1 1/2) inches in diameter and with a stopper or strainer.

b) Commercial Laundry Drains. Commercial laundry machines shall discharge individually into a trapped and vented outlet or may discharge into a trapped and vented trench drain.

Section 890.800 Special Fixtures and/or Items Designed for a Particular Purpose

Emergency showers and eye wash stations within a building shall be provided with a trapped and vented receptor.

Section 890.810 Minimum Number of Plumbing Fixtures

a) Minimum Number of Fixtures Required. Plumbing fixtures shall be provided, for each building type and occupant load, in the minimum numbers shown in Appendix A, Table B, "Minimum Number of Plumbing Fixtures", except as noted in footnote 2. Questions concerning the minimum numbers of fixtures required for building types not listed in Appendix A, Table B, shall be referred to the Department in writing prior to construction for a decision concerning the minimum numbers (and types) of plumbing fixtures required. The Department's decision shall be in writing based on Appendix A, Table B.

1) Building Classification. For purposes of this Part, buildings shall be classified according to the types shown in Appendix A, Table B. Buildings that incorporate more that one type of building use or occupancy, as classified by the Department, shall provide the combined numbers of fixtures required for the individual uses. For example, a building that serves as both a restaurant and office building shall provide the minimum numbers of plumbing fixtures required for that portion operating as a restaurant plus the number of fixtures required for the office space.

2) Occupant Load. For those building types where the minimum number of plumbing fixtures required in Appendix A, Table B, is dependent upon the building's occupant load, such occupant load shall be the estimated total occupant load. Where the building's occupant load is not known or determinable, the following shall be used to estimate the total occupant load:

A) In assembly places (sports arenas, stadiums, convention centers, theaters, auditoriums, gymnasiums, or other

facilities for spectator events); worship places and funeral homes; schools; office buildings; restaurants, and mercantile units, the total occupant load (employees and public users of the facility) shall be based on the capacity of the rooms or spaces used for assembly purposes or other intended occupancy, and shall be determined as follows:

i) In rooms or spaces with fixed seating, the occupant load shall be the actual number of seats provided. When no divisions between seats are provided (e.g., benches or pews), fixed seating shall be computed assuming 18 inches per person.

ii) In rooms or spaces without fixed seating, the occupant load shall be determined by dividing the gross floor area by the estimated floor area per person shown in the following table:

Building Type or Occupancy	Floor Area per Person (Sq. Ft.)
Assembly Places - Facilities for Spectator Events; Worship Places and Funeral Homes	15
Museums, Libraries, Exhibition Areas and Similar Uses	40
Schools	50
Day Care Centers	70
Office Buildings	200
Restaurants, Clubs, Taverns, and Other Eating/Drinking Facilities	30
Mercantile Units, Except Grocery Stores:	
- First Floor	100
- All Other Floors	120
Combination Grocery Store/Non-Grocery Mercantile Units	150
Grocery Stores	200
Storage/Shipping Area	400
Power Plants/Industrial Units	500

iii) For a drive-in restaurant, the occupant load shall be considered as equal to the number of parking stalls.

B) Dormitories and Institutions. For dormitories, penal institutions and other residential institutions other than hospitals, the total occupant load shall be based upon the number of beds in the dormitory or institution.

b) Required Restroom Facilities and Drinking Fountains

1) Employee Restrooms and Drinking Fountains

A) Restroom facilities and drinking fountains shall be provided for all employees within each place of employment. The minimum numbers of fixtures provided shall be based on the maximum number of male and female employees working at any one time, as shown in Appendix A, Table B.

i) If there are more than five (5) employees working at any one time, separate restrooms for men and women shall be provided.

ii) If there are no more than five (5) employees working at any time, one (1) restroom may serve both sexes. A restroom must have a minimum of one (1) water closet and one (1) lavatory.

iii) Location. For schools, day care centers and office buildings, the employee restrooms and drinking fountains shall be located on the same floor or one floor above or below each location where employees regularly work.

iv) Kiosks which are free standing places of employment of less than 5,000 square feet gross area, with five (5) or less employees at any time, and which have access to public restrooms and a drinking fountain located inside the same building within 200 feet of the kiosks, shall not be required to have employee restroom facilities or a drinking fountain.

B) If public restrooms and drinking fountains are also required for the building type, employees may share the restrooms and drinking fountain(s) with the public, provided the numbers of fixtures are sufficient for the combined numbers of males and females and the restrooms and drinking fountain(s) are provided within the place of employment (and within the required location for schools, day care centers and office buildings).

C) Buildings Under Construction. For temporary buildings or buildings under construction which are not yet occupied for their intended purpose, sanitary facilities shall be provided for the convenience of all workers.

i) Sanitary facilities provided shall be enclosed and shall be discharged into a sanitary sewer. In lieu of connecting to a sewer, the sanitary facility provided shall be a portable, enclosed, chemically-treated, tank-tight unit.

ii) Sanitary facilities (water flush type or non-sewered units) for workers shall be provided as shown in Appendix A, Table B, for "Office or Public Buildings," for number of required water closets. All work site toilet facilities shall be located within 200 feet horizontally of all workers, not more than 40 feet vertically from each other on multi-story structures, and within one-fourth (1/4) mile of each employee work place for agricultural work places.

iii) All non-sewered units shall be pumped regularly to assure adequate working facilities.

2) Public Restrooms and Drinking Fountains

A) General Requirements.

i) Buildings with 5,000 square feet gross area or more to be used by the public shall provide public restrooms and drinking fountains as shown in Appendix A, Table B. Buildings, other than those exceptions in Section 890.810(b)(2)(B) below, with less than 5,000 square feet gross area to be used by the public need not provide public restrooms or drinking fountains.

ii) Individual businesses within the same building, e.g., retail stores within an enclosed mall, may share public restroom facilities, provided the restrooms are designed for the combined occupant load of the individual businesses served, are always open when any individual business is open, and are not located more than 300 feet from the entrance of any business served. Exception: Any restaurant which sells food or beverage to be consumed on its premises or within the building/mall must be located no more than 100 feet from the shared public restrooms and must be on the same floor.

iii) Where public restroom facilities are required by this Part, separate facilities for males and females shall be provided. If public restroom facilities are not required by this Part but are desired, one restroom

may serve both males and females; however, that restroom shall not have more than one (1) water closet and one (1) lavatory.

iv) Where public restroom facilities are required by this Part, they shall be accessible to the public and meet the requirements of the "Illinois Accessibility Code" (71 Ill. Adm. Code 400). Where plumbing fixtures are installed for the physically disabled, such plumbing and plumbing fixtures shall comply with the "Illinois Accessibility Code".

B) Additional Requirements for Special Building Types

i) All restaurants which sell food or beverage to be consumed on the premises (regardless of their gross area) shall provide readily accessible restroom facilities for the public. If such public restrooms are not provided within the premises of the restaurant, they shall be located within the same building, on the same floor/level and within 100 feet of an entrance to the restaurant; and they shall be available for public use at all times that the restaurant is open.

ii) All businesses selling motor vehicle fuel to the public (regardless of their gross area) shall provide at least one public restroom for male use and one public restroom for female use.

iii) All enclosed public transportation (e.g., for aircraft, rail/train, bus) stations (regardless of their gross area) shall provide at least one public restroom for male use and one public restroom for female use.

SUBPART G: HANGERS, ANCHORS AND SUPPORTS

Section 890.910 Hangers, Anchors and Supports

a) General. Hangers, anchors and supports shall be of material and strength to support the piping and its contents and maintain its proper alignment. Hangers, anchors and supports shall be securely attached to the building construction at sufficient intervals to support the piping and its contents. Provisions shall be made to allow for expansion, contraction, structural settlement and vibrations. Installation shall be in accordance with manufacturers' directions if more stringent than this Part.

b) Material. Hangers, anchors and supports shall be of metal or other material strong enough to support the piping when full. Piers may be of concrete, brick or other approved materials.

Section 890.920 Vertical Piping

a) Attachment. Vertical piping shall be secured at intervals to keep the pipe in alignment and carry the weight of the pipe at its maximum capacity. Stacks shall be supported at their base and, if over two (2) stories in height, shall be supported at each floor by floor clamps. See Appendix G: Illustrations A and B.

b) Cast Iron Soil Pipe. Cast iron soil pipe shall be supported at not less than every story height and at its base. Hubless or compression gasket joint shall be supported at not less than every story height, at its base and at intervals to keep the pipe in alignment and to adequately support the weight of the pipe at its maximum capacity. See Appendix G: Illustrations A and B.

c) Threaded Pipe. Threaded pipe shall be supported at every other story height. Supports shall be of ferrous material.

d) Copper Tube. Hard drawn copper tube and annealed copper tubing shall be supported at least every story at not more than ten (10) foot intervals. On long lines where there are provisions for expansion and contraction, anchors may be a maximum of four (4) stories apart for cold water risers and drain/waste/vent (DWV) stacks, and two (2) stories apart for hot water risers, provided there are sleeves or similar devices at intermediate floors to restrain lateral movement. Supports shall be of copper material or other material which will not react with the piping material, and which will properly support the pipe.

e) Lead Pipe. Lead pipe shall be supported at intervals not exceeding four (4) feet. Supports shall be of lead or softer material.

f) Plastic Pipe. Hangers and straps shall not compress, distort, cut or abrade the piping and shall allow free movement of the pipe. Wire pipe hooks shall not be used to support plastic pipe. Restraining joints and expansion joints shall be installed as required. All vertical piping shall be maintained in straight alignment with supports at each floor level or at intervals of ten (10) feet, whichever is less. Trap arms in excess of three (3) feet shall be supported as close as possible to the trap.

Section 890.930 Horizontal Piping

a) Support. Horizontal piping shall be supported at sufficiently close intervals to keep the piping in alignment and prevent sagging. See Appendix G: Illustration C.

b) Cast Iron Soil Pipe. Suspended cast iron pipe shall be supported within 18 inches of each hub or joint and at not more than five (5) foot intervals. Hubless or compression gasket joints must be supported at least at every other joint except that when the developed length between hubless or compression gasket joints exceeds four (4) feet, supports shall be provided at each joint. Supports shall be placed on or immediately adjacent to the joint. Suspended pipes shall be braced to prevent horizontal movement. See Appendix G: Illustration D.

c) Threaded Pipe. Threaded pipe one and one-half (1 1/2) inches and larger shall be supported at least at 12 foot intervals; smaller pipe (e.g., one and one-quarter (1 1/4) inch pipe) shall be supported at least at eight (8) foot intervals. Supports shall be of ferrous material.

d) Copper Tube. Hard drawn copper tube shall be supported at least every eight (8) feet for one (1) inch and smaller tube, and at ten (10) foot intervals for larger sizes. Annealed copper tubing shall be supported at least every eight (8) feet. Supports shall be of copper material or other material of sufficient strength to support the tubing and which will not react with copper piping material.

e) Lead Pipe. Lead pipe shall be supported for its entire length. Supports in contact with the pipe shall be of lead or softer material.

f) Plastic Pipe. Hangers and straps shall not compress, distort, cut or abrade the piping and shall allow free movement of the pipe. Wire pipe hooks shall not be used to support plastic pipe. Restraining joints and expansion joints shall be installed as required. All horizontal piping shall be supported at intervals of not more than four (4) feet, at ends of branches, and at changes of direction or elevation. Trap arms in excess of three (3) feet shall be supported as close as possible to the trap.

SUBPART H: INDIRECT WASTE PIPING, SPECIAL WASTE

Section 890.1010 Indirect Waste Piping

a) Food and Beverage Handling. Commercial dishwashing machines, dishwashing sinks, pot washing sinks, pre-rinse sinks, silverware sinks, bar sinks, soda fountain sinks, vegetable sinks, potato

peelers, ice machines, steam tables, steam cookers and other similar fixtures shall have their drain lines indirectly discharged to a proper receptor. The only exception shall be when such fixtures are located adjacent to a floor drain. The waste may be directly connected on the sewer side of the floor drain trap provided the fixture waste is trapped and vented as required by this Part (see Appendix H: Illustrations A and B), and the floor drain is located within four (4) feet horizontally of the fixtures and in the same room. In the case of direct connection, no other fixture waste shall be connected between the floor drain trap and the fixture protected. All indirect waste shall discharge to a vented trap located as close as possible to the fixture and in the same room (See Appendix H: Illustrations C and D).

b) Connection. Indirect waste connections shall be provided for drains, overflows, and relief vents from the water supply system. See Appendix H: Illustration E. A clear water waste shall discharge through an indirect waste into a sanitary or storm drain system.

c) Sterile Materials. Stills, sterilizers and other appliances, fixtures, devices and water and waste connections used for preparation of sterile material shall be indirectly discharged to the drainage system.

d) Swimming Pools

Piping carrying backwash or other washwater from a swimming pool filter shall be installed as an indirect waste to the building drain or building sanitary waste system. Piping utilized to drain water from the pool proper, such as the main drain waste and gutter waste, shall be installed as an indirect waste to a storm sewer. Piping utilized for carrying wastewater from deck drains around a pool shall be installed as an indirect waste to the storm or sanitary sewer when the deck drains toward the pool.

f) Clear Water Wastes.

Water lifts, expansion tanks, cooling jackets, sprinkler systems, drip or overflow pans, or similar devices which waste clear water only shall discharge indirectly into a building storm drain, building drain or building sewer.

g) Fire Sprinkler Systems.

The relief valve (port) of a backflow device located on a fire sprinkler system which contains an additive shall drain indirectly to the building drain.

h) Cleaning.

Indirect waste piping shall be so installed as to permit access for flushing and cleaning.

Section 890.1020 Material and Size

Indirect waste pipe sizes shall be the same as the fixture outlets, but at least three-fourths (3/4) inch.

Section 890.1030 Length and Grade

a) Maximum Length. The maximum developed length of the indirect waste of any sanitary waste line shall not exceed five (5) feet. The maximum developed length of any indirect clear-water waste shall not exceed 15 feet.

b) Maximum Grade. Indirect waste pipes shall be installed at a uniform grade, in compliance with Section 890.1320(f), (g) and (h).

Section 890.1040 Air Gaps

The air gap between an indirect waste and the drainage system shall be at least two (2) times the diameter of the fixture drain or drainage pipe served, but shall never be less than one (1) inch. For requirements in excess of this minimum, see Appendix A: Table C. (See Appendix H: Illustration F.)

Section 890.1050 Receptors

a) Installation. Receptors serving indirect waste pipes shall be trapped and vented and shall not be installed in any concealed, inaccessible or unventilated space, and shall be sized to prevent overflow.

b) Strainers and Baskets. A receptor shall be equipped with either a readily removable basket over which the indirect waste pipe shall discharge or the indirect waste receptor shall be equipped with a strainer.

c) Splashing. All plumbing receptors receiving the discharge of indirect waste pipes shall be of such design and capacity as to prevent splashing or flooding under normal conditions. No plumbing fixtures with potable water connected to them, except service sinks, shall be used to receive the discharge of an indirect clear water waste pipe.

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Section 890.1060 Special Wastes and Chemical Wastes

a) Acid Wastes. Acid and chemical waste piping and fittings, including the trap, shall be of material that will not be damaged by the waste being discharged.

b) Neutralizing Device. Corrosive liquids, spent acids, or other harmful chemicals shall not be discharged into the building sewer without first being properly diluted or neutralized.

SUBPART I: WATER SUPPLY AND DISTRIBUTION

Section 890.1110 Quality of Water Supply

All premises intended for human habitation or occupancy shall be provided with a potable water supply. The potable water supply shall not be connected to non-potable water and shall be protected from backflow and back siphonage.

Section 890.1120 Color Code

Identification of piping. All piping conveying non-potable water shall be permanently identified by a distinctive yellow-colored paint so that such piping is readily distinguishable from piping carrying potable water. (See USAZ 253.1-1953 Safety Color Code for Marking Physical Hazards and USA AB.1-1956 Scheme for the Identification of Piping Systems.)

Section 890.1130 Protection of Potable Water

a) Cross Connection (Submergence). Potable water supply piping and water discharge outlets shall not be submerged in any sewage or toxic substance. Where potable water supply piping or water discharge outlets are submerged in other substances, they shall be provided with backflow protection as listed in Section 890.1140(f). See Appendix I: Illustrations A, B and C.

b) Approval of Devices and Maintenance. All devices for the prevention of backflow or back siphonage shall comply with the standard listed in Appendix A, Table A6. Each double check backflow preventer assembly (DCV) and reduced pressure principle backflow preventer assembly (RPZ) shall be tested and approved by a cross connection control device inspector before initial operation. Such backflow preventers (DCVs and RPZs) installed in a potable water supply system shall be tested and maintained at least annually, and records to verify testing and maintenance shall be available at the site of the installation of the device or at other approved locations. See Section 890.1130(g)(5).

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c) Backflow. The water distribution system shall be protected against back siphonage and backflow. Each water outlet shall be protected from back siphonage and/or backflow by having the outlet end from which the water flows spaced a distance above the flood-level rim of the receptacle into which the water flows sufficient to provide a minimum fixed air gap. Where it is not possible to provide a minimum fixed air gap, the water outlet shall be equipped with an accessible backflow preventer complying with applicable standards.

d) The installation of any fire safety system involving the potable water supply system shall be protected against backflow as follows:

1) A fire safety system that does not have chemical additives or a method of supplying chemical additives to the system, does not have any non-potable connection, does not have a fire department hose (siamese) connection, and has less than five (5) sprinkler heads shall be separated from the potable water supply system by a double check valve backflow preventer assembly.

2) A double detector check valve backflow preventer assembly shall be installed at the fire safety system's point of connection to the potable water supply when:

A) A fire safety system has no chemical additives, non-potable connection or fire department hose connection (but has five (5) or more sprinkler heads); or

B) A fire safety system has no chemical additives or non-potable connection, but has one (1) or more fire department hose connections which are served solely by a fire department which does not use chemical additives and without any non-potable water supply.

3) A fixed air gap with a break tank or other storage vessel or a reduced pressure principle backflow preventer assembly (RPZ) shall be installed at the fire safety system's point of connection to the potable water supply when:

A) The fire safety system contains additives such as antifreeze, fire retardant or other chemicals. (The RPZ may be located at the point of connection to that section of the system containing such additives when the system's connection to the water supply is protected by a double detector check valve backflow preventer assembly); or

B) Non-potable water flows into the fire safety system by gravity; or

C) There is a permanent or emergency connection whereby water can be pumped into the fire safety system from any other non-potable source; or

D) Fire department connections are available that could permit water to be pumped into the fire safety system from a non-potable source capable of serving the fire safety system. (A non-potable source of water shall be considered capable of serving the fire safety system under the following conditions: It must be capable of year-round use, maintained with at least 50,000 gallons of usable water not subject to freezing, accessible to fire fighting pumper equipment, and located within 1,700 feet of the facility.)

e) Prohibited Connections.

1) Sewage Lines. There shall be no direct connection between potable water lines and lines, equipment and vessels containing sewage. Such connections shall be made only through a minimum fixed air gap as outlined in Section 890.1140(a).

2) Chemical or Petroleum Pressure Vessels. There shall be no direct connection between any potable water supply and any pressure vessel, i.e., storage tank, tank car, tank truck or trailer or other miscellaneous pressurized tank or cylinder containing or having contained liquified gaseous petroleum products or other liquified gaseous chemicals. Where it is necessary to discharge from a potable water line to such a vessel, such discharge shall be through a minimum fixed air gap as outlined in Section 890.1140(a). Exception: Chemical pressure vessels containing chemicals used in the water treatment process, for uses other than private purposes, are exempt from the provisions of this subsection.

3) If water under pressure is required, as in paragraphs (1) and (2) above, it shall be supplied by means of an auxiliary pump taking suction from a tank provided for this purpose only with an overrim supply having the required minimum fixed air gap.

4) Refrigerant Condensers. A potable water line to a single wall refrigerant condenser shall be provided with a backflow preventer complying with A.S.S.E. 1012 or 1013.

5) No pipe or fitting of the water supply system shall be drilled or tapped nor shall any band or saddle be used except at the water main in the street. Exception: See Section 890.320(h) for potable water use only.

f) Devices for the Protection of the Potable Water Supply. Approved backflow preventers or vacuum breakers shall be installed with all plumbing fixtures and equipment that may have a submerged potable water supply outlet and that are not protected by a minimum fixed air gap. Connection to the potable water supply system for the following fixtures or equipment shall be protected against backflow with one of the appropriate devices as indicated below:

1) Inlet to receptacles containing non-toxic substances (steam, air, food, beverages, etc.):

A) fixed air gap fitting;
B) reduced pressure principle backflow preventer assembly;
C) atmospheric vacuum breaker unit;
D) double check (valve) backflow preventer assembly; or
E) double check backflow preventer with atmospheric vent.

2) Inlet to receptacles containing toxic substances of low or moderate toxicity (vats, storage containers, plumbing fixtures, etc.):

A) fixed air gap fitting;
B) reduced pressure principle backflow preventer assembly; or
C) atmospheric vacuum breaker unit.

3) Outlets with hose attachments which may constitute a cross connection:

A) fixed air gap fitting;
B) reduced pressure principle backflow preventer assembly; or
C) atmospheric vacuum breaker unit.

4) Coils or jackets used as heat exchangers in compressors, degreasers, and other such equipment involving toxic substances:

A) fixed air gap fitting; or
B) reduced pressure principle backflow preventer assembly.

5) Direct connections which are subject to back pressure:

A) Receptacles containing non-toxic substances (vats, storage containers, plumbing fixtures, etc.):

i) fixed air gap fitting;
ii) reduced pressure principle backflow preventer assembly;
iii) double check (valve) backflow preventer assembly; or
iv) double check backflow preventer with atmospheric vent.

B) Receptacles containing toxic substances of low or moderate toxicity (vats, storage containers, etc.):

i) fixed air gap fitting; or
ii) a reduced pressure principle backflow preventer assembly.

6) Inlet to or direct connection with sewage or lethal substances of high toxicity:

A) fixed air gap fitting.

g) Installation of Devices.

1) Devices of All Types. Backflow preventers and back siphonage-preventing devices shall be installed so as to allow accessibility, observation, maintenance and replacement services. No backflow preventer assembly shall be installed where it would be subject to freezing conditions.

2) All in-line backflow/back siphonage preventers shall have a full port type valve with a resilient seated shut-off valve on each side of the preventer and located within five (5) feet of the preventer.

3) A protective strainer shall be located upstream of the first check valve on all backflow/back siphonage preventers unless the device contains a built-in strainer. Fire safety systems are exempt from the strainer requirement.

4) Atmospheric Vacuum Breakers. Vacuum breakers shall be installed with the critical level above the flood level rim of the fixture they serve, and on the discharge side of the last control valve of the fixture. No shut-off valve or faucet shall be installed beyond the vacuum breaker. See Section 890.1140(a), (b) and (c).

5) Double Check and Reduced Pressure Principle Backflow Preventer Assemblies. No in-line double check backflow preventer assembly (DCV) or reduced pressure principle backflow preventer assembly (RPZ) shall be located more than five (5) feet above a floor, or be installed where it is subject to freezing or flooding conditions. Each double check and reduced pressure principle backflow preventer assembly shall be field tested in accordance with the manufacturer's instructions by a cross-connection control device inspector before initial operation. See Section 890.1130(b).

6) Closed water systems (as created by properly installed backflow prevention devices) shall have a properly sized thermal expansion tank located in the cold water supply as near to the water heater as possible and with no shut-off valve or other device between the heater and the expansion tank. Exception: In existing buildings with a closed water system, a properly sized relief valve may be substituted in place of a thermal expansion tank.

Section 890.1140 Special Applications and Installations

a) An atmospheric vacuum breaker shall be installed between the control valve and the fixture and in such a manner that it will not be subject to water pressure, except the pressure incidental to water flowing to the fixture. An atmospheric vacuum breaker shall be installed on the outlet side of the control valve.

b) Flushometer Valve. Flush valves shall be equipped with vacuum breakers installed on the discharge side of the flushing valve with the critical level at least four (4) inches above the overflow rim of the bowl or four (4) inches above the top of the urinal. See Appendix I: Illustration D.

c) Flushing Tanks. Flushing tanks shall be equipped with anti-siphon ball cocks. The ball cock shall be installed with the critical level of the vacuum breaker at least one (1) inch above the full opening of the overflow pipe. In cases where the ball cock has no hush tube, the bottom of the water supply inlet shall be installed one (1) inch above the top of the overflow pipe. See Section 890.650(d).

d) Lawn Sprinklers. Any lawn sprinkler system connected to a potable water supply shall be equipped with a reduced pressure principle backflow preventer assembly (RPZ). The RPZ may be located outside provided it conforms with Section 890.1130(g)(1).

e) Valve Outlets for Hose Attachments.

1) All threaded valve outlets shall have backflow protection in accordance with Section 890.1130. All outside threaded valve outlets shall not be subject to freezing.

2) Yard hydrants shall be installed as follows:

A) Potable Water

i) All hydrants with threaded spigots shall have backflow protection attached to the hydrant spigot (if threaded); and

ii) Hydrants with buried drain down (weep) holes shall have the drain down (weep) holes protected from ground water backup by proper open site drainage.

B) Non-potable Water

One or more hydrants may be installed for non-potable use if they are isolated from the potable water supply by a properly installed backflow preventer device. The hydrants must be clearly identified as non-potable by color (see Section 890.1120) and bear a sign that reads as follows: "This water unsafe for drinking."

f) Commercial Laundry Machines. The potable water supply to commercial laundry machine(s) shall be protected against back siphonage by an air gap or backflow protection device. If a vacuum breaker is used, it shall be a minimum of 26 inches above the top of the machine.

g) Commercial Dishwashers. Commercial dishwashers shall be equipped with an approved vacuum breaker located in the rinse water supply line on the discharge side of the final control valve, a minimum distance of six (6) inches above the uppermost spray outlets. The cold water or make-up water supply line shall be provided with an air gap or a vacuum breaker located on the discharge side of the final control valve, a minimum distance of six (6) inches above the overflow level or flood rim.

h) Aspirators. Water operated aspirators shall meet the following specifications:

1) The water supply line shall be equipped with a shut-off valve.

A) In operating rooms, emergency rooms, recovery rooms, delivery rooms, autopsy rooms, dental offices and laboratories where aspirators are installed for removing blood, pus and/or other fluids, a vacuum breaker shall be installed on the discharge side of the control valve, at ceiling height (a minimum of seven (7) feet, six (6) inches); or a reduced pressure principle backflow preventer assembly shall be used.

B) Water operated aspirators used for dispensing detergent shall be protected against backflow and back siphonage by an atmospheric vacuum breaker or a reduced pressure principle backflow preventer assembly.

2) The aspirator water discharge shall be provided with a two (2) inch air gap to the receiving fixture.

i) Manufactured Housing and Mobile Home Units. Backflow protection must be installed on the service line to any manufactured housing or mobile home unit which does not conform with the requirements of this Part.

Section 890.1150 Water Service Pipe Installation

a) Underground Water Service.

Water service pipe shall be installed in accordance with one of the following methods:

1) Water service and building drain or building sewer may be installed in separate trenches with a minimum of ten (10) feet horizontal separation. Such installation shall use material listed in Appendix A, Tables A2 and A3, provided that such material is specific for this type of installation. (See Appendix I: Illustration E)

2) The water service and the building drain or building sewer may be installed in the same trench provided that the water service is placed on a solid shelf a minimum of 18 inches above the building drain or building sewer. For such installation, the building sewer shall be of material listed in Appendix A: Table A1 for a building drain. (See Appendix I: Illustration F for the proper installation of water service, building drain and building sewer.)

3) The minimum depth for any water service pipe shall be at least 36 inches or the maximum frost penetration of the local area, whichever is of greater depth.

b) Potable Water Piping and Sewer Crossing Installation Requirements

1) Where it is necessary for the potable water piping to pass above a sewer, such piping shall be installed with a minimum vertical separation of 18 inches.

2) Where it is necessary for the potable water piping to pass beneath a sewer (or drain), the sewer (or drain) shall be of materials as specified in Appendix A: Table A1 for building drains and shall extend on each side of the crossing to a distance of at least ten (10) feet as measured at right angles to the water line. The potable water piping shall comply with Appendix A: Table A3 as specified for a water service pipe. (See Appendix I: Illustration G.)

c) Stop-And-Waste Valve. Combination stop-and-waste valves and cocks shall not be installed in an underground potable water pipe. Frost free hydrants and fire hydrants shall not be considered stop-and-waste valves. See Section 890.1140(f).

Section 890.1160 Water Pumping and Storage Equipment

a) Pumps and Other Appliances. Water pumps, tanks, filters, and all other appliances and devices shall be protected against contamination.

b) Water Supply Tanks. Potable water supply tanks shall be properly covered to prevent contamination of the water supply. Soil or waste lines shall not pass directly over such tanks.

c) Cleaning, Painting, Repairing Water Tanks. A potable water supply tank used for domestic purposes shall not be lined, painted or repaired with any material which affects either the taste or the potability of the water. Tanks shall be disconnected from the system during such operations to prevent any foreign substance from entering the system.

Section 890.1170 Water Supply Tanks and Auxiliary Pressure Tanks

a) When the water pressure from the public water supply main is insufficient during periods of peak flow or due to the building height to supply all fixtures in accordance with Section 890.1210(c), the rate of supply shall be supplemented by a gravity tank or auxiliary pressure (booster) system. Auxiliary pressure systems shall not substitute for adequate sizing of water distribution piping within the building.

b) Support. All water supply tanks shall be supported in accordance with local building codes or other regulations that apply.

c) Tank Supply Inlet and Outlet. The water supply inlet to the tank shall have a minimum air gap of at least six (6) inches. The supply outlet shall be a minimum of four (4) inches above the bottom of the tank.

d) Overflow For Water Supply Tanks. Overflow pipes for gravity tanks shall be indirectly connected to the drainage system with an air gap of at least six (6) inches. Overflow pipes shall be full sized, unrestricted and shall be screened with 24-mesh per inch stainless steel or bronze screen.

e) Size of Overflow. Overflow drains for gravity water supply tanks shall have an area of at least twice the size of the supply pipe.

f) Drains. Water supply tanks shall be provided with valved drain lines located at their lowest point and discharge through an indirect waste with an air gap of twice the diameter of the drain line. Such drain line and valve shall have no restrictions and need not exceed two (2) inches in diameter.

g) Gravity and Suction Tanks. Tanks used for potable water supply or to supply fire-fighting equipment only shall be equipped with tight, overlapping covers which are rodent and insect proof. Such tanks shall be vented with a return bend (turned down) pipe having an area at least one-half (1/2) the area of the tank outlet pipe, and the vent opening shall be covered with a stainless steel or bronze screen of at least 24-mesh per inch.

h) Pressure Tanks. Pressure tanks used for supplying water to the water distribution system, or to supply standpipes for fire equipment only, shall be equipped with a vacuum relief valve located on top of the tank. An air inlet of this device shall be covered with a stainless steel or bronze screen of at least 24-mesh per inch. See Section 890.1220(a).

Section 890.1180 Disinfection of Potable Water System

New or repaired potable water systems shall be disinfected prior to use as follows:

a) The pipe system shall be flushed with clean, potable water until no dirty water appears at the point of outlet.

b) The system (or part thereof) shall be filled with a chlorine solution containing at least 50 parts per million of chlorine, shall be valved off and allowed to stand for 24 hours; or the system (or part thereof) shall be filled with a chlorine solution containing at least 200 parts per million of chlorine and be allowed to stand for three (3) hours.

c) Following the required contact (standing) time, the system shall be flushed with clean, potable water until the chlorine level in the water discharging from the system is within acceptable limits for potable water, i.e., generally until the water has no detectable chlorine odor.

d) To ensure that the water supply is safe for drinking, secure a bacteriological examination of the water supply by a laboratory certified in accordance with 35 Ill. Adm. Code 183. If such examination reveals that contamination still persists in the system, the procedure outlined above for disinfection shall be repeated.

Section 890.1190 Water Supply Control Valves and Meter

a) A full port shut-off valve shall be located near the curb or property line and immediately inside the building, either on the inlet or outlet side of the water meter. When underground, this valve shall be located in a stop box or meter vault. See Appendix I: Illustration H.

b) The utility meter may be installed outside in an accessible meter vault or within the building. The meter shall have unions on the inlet/outlet openings, but is not required to have a shut-off valve on the inlet side of the meter if it is inside a building. A full-port valve with an open area at least that of the water service shall be provided for all meters and when inside of a building shall be provided with a drip valve installed on the discharge side of the meter. See Appendix I: Illustrations H and I.

c) Tank Controls. Supply lines taken from pressure or gravity tanks shall be valved at or near their source.

d) Separate Controls for Each Family Unit. In multiple family dwellings, the water service or water distribution pipe to each family unit shall be controlled by an arrangement of shut-off valves which permits each group of fixtures and each individual fixture to be shut off without interference with the water supply to any other family unit or portion of the building. The location of such valves shall be uniform in each family unit of a multiple family dwelling. See Appendix I: Illustration J.

e) Line Valves. Valves in the water supply distribution system, except those immediately controlling one fixture supply, when fully opened, shall have a cross-sectional area of the smallest orifice or opening through which the water flows at least equal to the cross-sectional area of the pipe in which the valve is installed.

f) Buildings Other Than Dwellings. In all buildings other than dwellings, shut-off valves shall be installed which permit the water supply to all equipment and/or fixtures in each separate room to be shut off without interfering with the water supply to any other room or portion of the building. See Appendix I: Illustration K.

g) Water Heating Equipment. A shut-off valve shall be provided in the cold water branch line within five (5) feet of each water storage tank or each water heater.

Section 890.1200 Water Service Sizing

a) Water Service Pipe Sizing. The water service pipe from the street main (including the tap) to the water distribution system for the building shall be sized in accordance with Appendix A, Tables M, N, O, P and Q. Water service pipe and fittings shall be at least three-fourths (3/4) inch diameter. If flushometers or other devices requiring a high rate of water flow are used, the water service pipe shall be designed and installed to provide this additional flow.

b) Demand Load. The calculation of the water service demand load for a building shall be based on the total number and types of fixtures installed in the building, assuming the simultaneous use of such fixtures.

c) Unused sections of water service or water distribution piping ("dead ends"), where the water in the piping may become stagnant, are prohibited. A developed length of more than two (2) feet shall be considered a dead end.

Section 890.1210 Design of a Building Water Distribution System

a) Design and Installation. The design and installation of the hot and cold water building distribution systems shall provide a volume of water at the required rates and pressures to ensure the safe, efficient and satisfactory operation of fixtures, fittings, appliances and other connected devices during periods of peak use.

b) Size of Water Distribution Pipes. The fixture supply for each fixture shall be at least the minimum size provided in Appendix A, Table D. The size of all other water distribution pipes shall be determined by calculating the water supply demand (in water supply fixture units) for that portion of the water distribution system served by the pipe. Using Appendix A, Tables M, N, O, P and Q, the cumulative water supply demand or load shall be calculated for all fixtures, piping, valves and fittings served by the water distribution pipe, and the pipe shall meet the minimum size provided in Appendix A, Table N or O, as applicable.

c) Minimum Water Pressure. The minimum constant water service pressure on the discharge side of the water meter shall be (at least) 20 p.s.i.; and the minimum constant water pressure at each fixture shall be at least eight (8) p.s.i. or the minimum recommended by the fixture manufacturer.

d) Auxiliary Pressure. Supplementary Tank. If the pressure in the system is below the minimum 8 p.s.i. at the highest water outlet when the flow in the system is at peak demand, an automatically controlled

pressure tank or gravity tank of a capacity to supply sections of the building installation which are too high to be supplied directly from the public water main shall be installed.

e) Low Pressure Cut-Off. When a booster pump except those used for fire protection is used on an auxiliary pressure system, there shall be installed a low-pressure cut-off switch on the booster pump to prevent the creation of pressures less than five (5) p.s.i. on the suction side of the pump. A shut-off valve shall be installed on the suction side of the water system and within five (5) feet from the pump suction inlet, and a pressure gauge shall be installed between the shut-off valve and pump.

f) Water Hammer. All building water supply systems in which quick-acting valves are installed shall be provided with air chambers or approved mechanical devices or water hammer arrestors to absorb high pressures resulting from the quick closing of these valves. Water pressure absorbers shall be placed as close as possible to the quick-acting valves or be installed at the ends of long pipe runs or near batteries of fixtures.

1) Air Chambers - Where an air chamber is installed in a fixture supply, it shall be at least twelve (12) inches in length and the same size as the fixture supply. Where an air chamber is installed in a riser, it shall be at least 24 inches in length and the same size as the riser.

2) Mechanical Devices - Where mechanical devices or water hammer arrestors are used, the manufacturer's specifications for location and installation shall be followed.

g) Excessive Static Water Pressure. When water main pressure exceeds 80 p.s.i., a pressure reducing valve and a strainer with a by-pass relief valve shall be installed in the water service pipe near the entrance to the building to reduce the water pressure to 80 p.s.i. or lower. Sill cocks and outside hydrants may be left on full water main pressure.

h) Approval of Auxiliary Pressure Systems. Whenever in any building, structure, or premises receiving its potable water supply from the public water system, a pump or any other device for increasing the water pressure is to be installed, plans of such installation shall be approved by the Department prior to installation in accordance with Section 890.1940.

i) Variable Street Pressures. When the water main has a wide fluctuation in pressure, the water distribution system shall be designed for minimum pressure available at the main unless alternate

provisions are made. A return piping system, a header system, or an oversizing of the water distribution system meets this requirement.

Section 890.1220 Hot Water Supply and Distribution

a) All water heaters shall comply with the requirements of Appendix A, Table A6, and ASHRAE 90 Standards. Hot water storage tanks shall meet construction requirements of ASME, AGA, or UL listed in Appendix A, Table A6, as appropriate. Hot water supply boilers with heat input in excess of 200,000 BTU per hour, water temperature in excess of 200 degrees F., or capacity in excess of 120 gallons must also comply with the requirements of the "Boiler and Pressure Vessel Safety Rules and Regulations" (41 Ill. Adm. Code 120). Smaller water storage tanks that are not subject to ASME requirements shall be of durable materials and constructed to withstand 150 p.s.i.

1) All equipment used for heating and storage of hot water shall bear the marking of an approved testing agency certifying that it has been tested and approved and listed as meeting the requirements of the applicable standard. Listing by Underwriters Laboratories, American Gas Association or National Board of Boiler and Pressure Vessel Inspectors, or the ASME Standard shall constitute evidence of conformance with these standards. See Appendix I: Illustrations L and M.

2) A solar-heated system shall use a double-walled heat exchanger which is exposed or vented to the atmosphere between the walls.

3) Heat exchangers may be of single wall construction if a nontoxic transfer fluid with no conditioning chemicals in the system is used, or if a pressure gradient monitor system is installed to isolate the heat exchanger from the potable water system. If pressure on the potable water side reaches a pressure less than ten (10) p.s.i. above the toxic transfer fluid pressure, an audible alarm shall be activated.

4) Heat exchangers using a toxic transfer fluid and having conditioning chemicals in the system shall be separated from the potable water by double wall construction. There shall be an air gap open to the atmosphere between the two walls. The boiler (heating chamber) must be low pressure (below 65 p.s.i.).

5) No heat exchanger will be permitted on any boiler system operating in excess of 65 p.s.i., or high temperature hot water system operating in excess of 250 degrees F, or any steam boiler operating with a pressure in excess of 50 p.s.i., unless:

A) the heat exchanger is double-walled; and

B) the heat exchanger has an air gap open to the atmosphere between the two walls; and

C) To isolate the heat exchanger from the potable cold or hot water system, a pressure gradient monitor system with "fail-safe to off" switch is installed. If pressure on the potable water side reaches a pressure less than 20 p.s.i. above the pressure of the transfer fluid or steam and a pressure reducing valve is installed on the inlet to the heat exchanger with a setting 20 p.s.i. lower than the potable water pressure at the heat exchanger, an audible alarm shall be activated and the heat exchanger shall be automatically shut off until the alarm and heat exchanger can be reset manually.

6) Any boiler using toxic chemicals shall have a label with a minimum size of five (5) inches x five (5) inches attached to the boiler in a conspicuous place. The label shall read as follows:

WARNING

Chemicals and additives used to treat the boiler feed water in this boiler are not approved for potable water. The steam or hot water produced by this boiler is not potable. If the steam or hot water produced by this boiler is used to heat water, the water will not be considered potable if the steam and potable water are mixed.

7) Indirect, External, Submerged Coils. Indirect, external, tankless or submerged coils used in heating water shall be equipped with a thermostatic mixing valve or valves when not connected to a storage tank. A pressure relief valve shall be installed on the cold water inlet of the tank. A temperature and pressure relief valve shall be installed on the tempered line with the sensing element immersed in the tempered water line as close as possible to the mixing valve.

8) Direct Fired Instantaneous Heaters. (Storage tank of more than 64 fluid ounces.) Direct fired instantaneous water heaters shall be equipped with a thermostatic mixing valve or valves. A pressure relief valve shall be installed on or adjacent to the heater. A temperature and pressure relief valve shall be installed on the tempered line with the temperature sensing element immersed in the tempered water pipe as close as possible to the mixing valve.

9) Water Heaters. A water heater conforming to ANSI Z21.10.1a 1988 to be used for hot water supply and space heating shall be constructed for continuous use and the piping for space heating shall be conducted to a proper terminal heating device.

A) A thermostatic mixing valve shall be installed on the hot water line to the plumbing fixtures. (The mixing valve shall be set to prevent temperatures exceeding 120 degrees F from reaching the plumbing fixtures.)

B) A single check valve shall be installed in the cold water line supplying the water heater. (This will prevent hot water backing up from the heating unit to the plumbing fixtures.)

C) A properly sized and approved expansion tank shall be vertically supported on the outlet side of the check valve in the water heater's cold water supply with no shut-off valve between the heater and expansion tank.

D) Valves (manual, automatic) supplying hot water to the heat transfer unit for space heating shall have a minimum of a one-eighth (1/8) inch orifice within the unit. (This will prohibit potable water from standing in the heat transfer unit when not in use.)

E) The water heater instructions shall have a statement specifying that piping and components connected to the water heater for the space heating application shall be suitable for use with potable water and the water heater shall not exceed a developed length of more than 25 feet from the heating coil.

F) A statement specifying that toxic chemicals, such as those used for boiler treatment, shall not be introduced into the potable water used for space heating shall be included in the instructions. A label with the following words shall be firmly attached to any water heater used for space heating. "DO NOT INJECT TOXIC MATERIALS INTO THIS TANK."

G) A statement specifying that a water heater which will be used to supply potable water shall not be connected to any heating system or components previously used with a non-potable water heating appliance shall be included in the installation instructions.

H) Each water heater shall bear a statement on the rating plate as follows: "SUITABLE FOR POTABLE WATER HEATING AND SPACE HEATING."

I) Water that leaves the potable water system for heating, cooling, use in equipment or other similar uses shall not be returned to the potable water distribution system. When such water is discharged to the building drainage system it shall be discharged through a fixed air gap.

10) Point-of-Use Instantaneous Water Heaters. Point-of-use instantaneous water heaters (high temperature, non-storage or storage of 64 fluid ounces or less, non-pressurized relative to atmosphere) shall meet the following requirements:

A) Units intended to deliver water temperatures exceeding 110 degrees F, or with no mechanical or electrical temperature limiting device must have the faucet located at least three (3) inches from the 110 degree F hot water or cold water faucet. All such faucet outlets shall have labels clearly and conspicuously indicating extremely hot water.

B) All pressurized point-of-use water heaters shall also have provisions as a part of the unit to provide temperature and pressure relief. Valves shall be set to relieve at 20 degrees F above the intended water temperature and at 125 p.s.i. or at 15 p.s.i. below the pressure rating of the lowest rated part of the assembly, whichever is lower.

11) Steam Heat. All water heaters including storage heaters, instantaneous shell and tube heat exchangers, steam injection heaters and any other device using steam to heat water for potable use shall meet the following requirements:

A) All chemicals and additives used to treat the boiler feed water in a boiler supplying steam to heat potable water must be proper for use with potable water. Where such approved chemicals and additives are used with steam boilers generating at 15 p.s.i. or less, single wall heat exchangers may be used.

B) Steam injection heaters must be supplied with steam from a generator or boiler which uses only United States Food and Drug Administration (FDA) approved additives or chemicals.

C) The following warning label with a minimum size of five (5) inches x five (5) inches shall be permanently attached to each steam injection heater:

"If the chemicals used to treat the feed water to provide steam for this steam injection water heater are not approved for potable water, the hot water from this heater

shall not be considered potable. Therefore, each cross connection between the hot water and cold water connections to or from this heater must be provided with a device to prevent the backflow of hot water or steam condensate into the potable water supply."

D) The following warning label with a minimum size of five (5) inches x five (5) inches shall be permanently attached on the front of any boiler providing steam to direct injection steam hot water heaters:

"If the chemicals used to treat the boiler feed water in this boiler are not approved for potable water, the steam produced by this boiler cannot be considered potable. Therefore, if steam from this boiler is used to heat water, the water shall not be considered potable and any cross connections between the hot water produced and a potable water supply must be provided with a device to prevent the backflow of the non-potable hot water into the potable water supply."

b) Water Heaters - Food Service. Water heaters installed and utilized in food service establishments with dishwashing machines shall comply with National Sanitation Foundation (NSF) Standard Number 5.

Section 890.1230 Safety Devices

a) Pressure relief valves shall have an ASME relief rating to meet the pressure conditions specified on the equipment served. They shall be installed in the cold water supply line to the heating equipment served, except where scale formation from hard water may be encountered, in which case they shall be installed in the hot water supply line from the heating equipment served. There shall not be a shut-off valve between the pressure relief valve and the tank. The pressure relief valve must be set to open at a maximum of the working pressure rating of the water heater, but shall not exceed 150 p.s.i. Each pressure relief valve shall have a test lever.

b) Temperature Relief Valve. Temperature relief valves shall bear an American Gas Association (AGA) relief rating, expressed in British Thermal Units (BTU) of heat input per hour, for the equipment served. They shall be installed so that the temperature sensing element is immersed in the hottest water within the top six (6) inches of the tank. The valve shall be set to open full when the stored water temperature is 210 degrees Fahrenheit.

c) Combination Pressure-Temperature Relief Valves.

1) Combination pressure-temperature relief valves shall comply with the applicable requirements as listed in Appendix A, Table A6 for individual pressure and individual temperature relief valves, and shall be installed so that the temperature sensing element is immersed in the hottest water within the top six (6) inches of the tank and have a test lever.

2) A check valve or shut-off valve shall not be installed between any safety device and the hot water equipment, nor shall there by any shut-off valve in the discharge pipe from the relief valve. See Appendix I: Illustrations N and O.

3) Energy cut-off devices shall not be used in lieu of (1) and (2) above and shall be of a design to properly serve the intended use of the plumbing appliance, appurtenance or device. Exception: Instantaneous cut-off devices are exempted or may be used.

d) Relief Discharge Outlet. A relief discharge outlet shall be indirectly connected to waste. The discharge pipe from the relief valve shall not be located so as to create a safety hazard or to discharge in such a way as to cause damage to the building or its contents. The relief valve shall not discharge through a wall into the outside atmosphere or where there is a possibility of freezing.

No reduced coupling, valve or any other restriction shall be installed in the discharge line of any relief valve that would impede the flow of discharge. The discharge line shall be installed from the relief valve to within six (6) inches of the floor or receptor and the end of such line shall not be threaded. Any piping used for discharge from the relief valve shall be of metallic material and conform with the requirements of Appendix A, Table A4 for potable water piping and shall drain continuously downward to the outlet. The discharge piping shall discharge indirectly into a floor drain, hub drain, service sink, sump or a trapped and vented P-trap. See Sections 890.1010 and 890.1050(a), (b) and (c). The trap must have a deep seal to protect against evaporation or shall be fed by means of a priming device designed and installed for that purpose. (The use of a light grade oil in the trap will retard evaporation.)

e) Pressure Marking - Hot Water Storage Tank. Hot water storage tanks shall be permanently marked in an accessible place with the maximum allowable working pressure.

f) Vacuum Relief Valve. Where a hot water storage tank or water heater is located at an elevation above the fixture outlets in the hot water

system, or if the storage tank or water heater is bottom fed, a vacuum relief valve as listed in Appendix A, Table A6 shall be installed on the storage tank or heater.

g) Multiple Temperature Hot Water Systems. Such systems shall be provided with thermostatic mixing valves to properly control the desired temperatures.

h) Shower Compartments and Shower-Bath Combinations. All shower compartments and shower-bath combinations shall be provided with an automatic safety water mixing device to prevent sudden unanticipated changes in water temperature or excessive water temperatures. Multi-shower units may be controlled by a master automatic safety water mixing device. A hot water heater thermostat is not an acceptable alternative water temperature control device. See Section 890.690(b)

Section 890.1240 Miscellaneous

a) Drain Cock. All storage tanks shall be equipped with drain cocks.

SUBPART J: DRAINAGE SYSTEM

Section 890.1310 Materials

a) General. All materials used for drainage systems shall comply with Appendix A, Table A1.

b) Corrosive Waste. If corrosive waste is discharged to the drainage system, or if soil conditions are corrosive, only piping material listed in Appendix A, Table A1, and approved for use with corrosive material shall be used. Fittings shall be of the same material as piping. No other material (piping, fitting, etc.) shall be used unless its use is approved in writing by the Department prior to installation, in accordance with Section 890.1940.

Section 890.1320 Drainage System Installation

a) Drain - Filled Ground. A building drain installed in filled ground shall be of cast iron, copper Type "K", or non-metallic Schedule 40 or heavier. Except for cast iron, such drains shall be installed on a continuous supporting system.

b) Existing Drain and Sewer Installation. Existing drain, waste, vent and sewer may be used in the renovation of the plumbing system of an existing structure if they are in serviceable condition and the materials conform with Appendix A, Tables A1 and A2.

c) Freezing. No soil or waste pipe shall be installed or permitted outside of a building or in an exterior wall unless provisions are made to protect such piping from freezing.

d) Dead Ends. Dead ends shall be avoided in a drainage system, except where necessary to extend the system to install a cleanout in an accessible location. A dead end intended for future connection (extension) which is more than two (2) feet above a floor or more than ten (10) feet horizontally from the nearest vented connection must have a vented connection to the outside atmosphere. See Appendix J: Illustration A.

e) Horizontal Drainage Piping. Horizontal drainage piping shall be installed on a uniform grade.

f) Small Piping. Horizontal drainage piping of three (3) inches diameter or less shall be installed with a grade of at least one-fourth (1/4) inch per foot.

g) Large Piping. Horizontal drainage piping larger than three (3) inches but less than eight (8) inches in diameter shall be installed with a grade of at least one-eighth (1/8) inch per foot. For piping larger than eight (8) inches in diameter, the grade is determined by the number of drainage fixture units connected to the drain pipe (See Appendix A: Table G).

h) Minimum Velocity. Where conditions do not permit building drains to be installed with a grade as great as that specified above in (f) and (g), a lesser grade may be used provided the computed velocity will not be less than two (2) feet per second.

i) Changes in Direction. Changes in direction shall be made in drainage piping by the use of 45-degree wyes, long sweeps, short sweeps, quarter, fifth, sixth, eighth, or sixteenth bends, or by a combination of these fittings. Single and double sanitary tees and short sweep quarter bends shall be used in drainage lines only where the direction of flow is from the horizontal to the vertical and may be used for making necessary vertical offsets between the ceiling and floor above. See Appendix J: Illustrations B, C and D. Exception: A short sweep drainage quarter bend of less than three (3) inches diameter and placed in a horizontal to horizontal position for a stack vent arm may be used to receive grey water.

j) No fittings having a hub in the direction opposite to flow, or tee branch, shall be used as a drainage fitting. No running threads, bands, or saddles shall be used in the drainage system. No drainage or vent pipe or fitting shall be drilled or tapped.

k) No fitting, connection, device or method of installation shall be used which obstructs or retards the flow of water, waste, or air in the drainage or venting system by an amount greater than the normal frictional resistance to flow. The enlargement of a three (3) inch closet bend or stub to four (4) inches shall not be considered an obstruction if it is necessary to increase the bend or stub at the floor line to four (4) inches in diameter in order to accommodate the water closet outlet.

l) Fixture Connections. Branch wastes and fittings for circuit vented fixtures shall be installed so that the fixture drain enters the side of the branch drain. See Section 890.1320(i) and Appendix J: Illustration E.

m) Back-to-Back Fixtures. Back-to-back fixtures shall be installed with fittings that will prevent mixing of the discharge prior to a change in direction of flow of the discharge from each fixture, or shall be installed with fittings especially designed to eliminate throw-over or backflow of the discharge from one fixture to the other fixture.

n) Location of Drains. All building drains, branches of building drains, building sewers or any sanitary sewers shall be located at least 50 feet from a well or buried suction line; except where cast iron pipe with mechanical or compression joints or Schedule 40 PVC pipe with solvent weld and water tight joints is used for the building sewer, then such drains shall be located at least ten (10) feet from a well or buried suction line.

Section 890.1330 Drainage Fixture Units (D.F.U.)

a) Values for Fixtures. Drainage fixture units (D.F.U.) as given in Appendix A: Table E designate the relative load of different kinds of fixtures which shall be used to calculate the total load carried by a soil or waste pipe, and shall be used with the tables of sizes for soil, waste, and drain pipes for which the permissible load is given in terms of drainage fixture units (DFU).

b) Values for Continuous Flow. For a continuous or semi-continuous flow into a drainage system, such as from a pump, ejector, air-conditioning equipment or similar devices, two drainage fixture units shall be considered to be equal to each gallon per minute (gpm) of flow.

Section 890.1340 Determination of Sizes for Drainage System

a) Maximum Fixture Unit Load. The maximum number of drainage fixture units that may be connected to a given size of building drain, horizontal branch, or vertical soil or waste stack is given in Appendix A: Tables G and H.

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b) Minimum Size of Building Drain, Horizontal Branches, Drainage Piping

1) The minimum size of any gravity building drain shall be four (4) inches in diameter.

2) Pressure building drains shall not be used where gravity drains may be installed. Pressure building drains shall be sized in accordance with the ejector pump manufacturer's recommendation but shall not be less than two (2) inches in diameter.

3) Gravity drained horizontal branches of the building drain shall be sized in accordance with Appendix A, Table H.

4) No portion of the drainage system installed underground or below a basement or cellar shall be less than two (2) inches in diameter.

5) The drainage piping shall not be reduced in size in the direction of flow.

c) Minimum Size of Soil and Waste Stacks. No soil or waste stack shall be smaller than the largest horizontal branch connected thereto except that a four (4) inch x three (3) inch water closet connection shall not be considered as a reduction in pipe size.

d) Waste Stacks Serving Kitchen Sinks. In one (1) or two (2) family dwellings in which the waste stack or vent receives the discharge of a kitchen-type sink and also serves as a vent for fixtures connected to the horizontal portion of the branch served by the waste stack, the minimum size of the waste stack up to the highest sink branch connection shall oe two (2) inches in diameter. Above that point the size of the stack shall be governed by the total number of drainage fixture units vented by the stack. (See Appendix J: Illustration F.)

e) Future Fixtures. When provision is made for the future installation of fixtures, those provided for shall be considered in determining the required size of drain pipes and vent piping during initial construction. Piping provided for such future installation of fixtures shall be terminated with a plugged fitting or fittings at the stack so as to form no dead ends. In a multi-story building, when openings are roughed in for future fixtures below the uppermost level, properly sized vent piping shall be connected to the vent system and carried down to the appropriate lower level and be capped or plugged in an accessible location for venting of the future fixtures.

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Section 890.1350 Offsets in Drainage Piping

a) Offsets of 45 Degrees or Less. An offset in a vertical soil or waste stack with a change of direction of 45 degrees or less from the vertical shall be sized as a straight vertical stack. If a horizontal soil or waste branch connects to the soil or waste stack within two (2) feet above or below the offset, a relief vent shall be installed in accordance with Section 890.1550(c). See Appendix J: Illustration G.

b) Offsets of More Than 45 Degrees. A soil or waste stack with an offset of more than 45 degrees from the vertical shall be sized and installed as follows:

1) The portion of the stack above the offset shall be sized as for a regular stack based on the total number of drainage fixture units above the offset.

2) The offset shall be sized as for a building drain. See Appendix A: Table G.

3) The portion of the stack below the offset shall be sized as for the offset or based on the total number of drainage fixture units on the entire stack, whichever is larger. See Appendix A: Table L.

4) The drain offset shall have a relief vent installed as provided in Section 890.1550. In no case shall a horizontal soil or waste branch connect to the soil or waste stack within two (2) feet above or below the drain offset. See Appendix J: Illustration H.

c) Above Highest Branch. An offset above the highest horizontal waste branch is an offset in the stack vent and shall be considered only as it affects the developed length of the vent. See Appendix J: Illustration I.

d) Below Lowest Branch. In the case of an offset in a soil or waste stack below the lowest horizontal branch, no change in diameter of the stack shall be required because of the offset if it is made at an angle of not greater than 45 degrees. If such an offset is made at an angle greater than 45 degrees, the required diameter of the offset and the stack below it shall be determined as for a building drain. See Appendix A: Table G. See Appendix J: Illustration J.

Section 890.1360 Sanitary Wastes Below Sewer

a) Sanitary Wastes Below Sewer

1) Sanitary wastes which cannot be discharged by gravity flow shall be discharged into a gas-tight, covered and vented sump from which the waste shall be lifted and discharged into a sanitary waste drain by automatic pumping equipment. See Appendix J: Illustrations K and L.

2) Sumps and ejectors handling sub-soil drainage and footing drains shall not receive any sewage. Sumps and ejectors handling sewage shall not receive subsoil drainage and footing drains.

b) Design. Sump and pumping equipment shall be designed and installed to discharge all contents accumulated in the sump during the pumping cycle.

c) Sub-Drainage. The system of drainage piping below the building drain level shall be installed and vented in the same manner as that of the gravity drainage system.

d) Duplex Equipment. Sumps receiving the discharge of more than six (6) water closets shall be provided with duplex pumping equipment.

e) Vent Sizes. Building sump vents shall be sized in accordance with Appendix A: Table K.

f) Connections. No direct connection of a steam exhaust, blowoff, or drip pipe shall be made with the building drainage system waste water. When steam exhaust, blowoff or drip pipes are discharged into the building drainage system, they shall not exceed a temperature of 180 degrees F. When higher temperatures exist, cooling methods shall be provided to reduce the temperature to 180 degrees F or less.

Section 890.1370 Floor Drains

a) Required. Any building or structure in which plumbing is installed under a concrete floor or concrete over a crawl space shall have at least one (1) trapped floor drain. Additional floor drains shall be required if the installation of fixtures and appurtenances requires the use of floor drains. In a multi-family dwelling, each unit shall have a floor drain if fixtures and appurtenances installed therein require the use of a floor drain.

1) Underground floor drains connected to a building drain or a building sub-drain within four (4) feet of a stack shall be vented. All other floor drains shall be vented as required by Appendix A, Table I.

2) Each floor drain shall be connected to a sanitary waste drain, except those drains receiving only clear water discharges which may be connected to the sub-soil drainage system. See Appendix A: Tables F and I.

3) At least one (1) floor drain shall be located in every restroom having a masonry or concrete floor except those for private use.

4) In hospitals and nursing homes, floor drains will not be required in toilet/bath facilities serving four (4) or less individual residents where access to the facilities is direct from no more than two resident rooms. Toilet/bath facilities in hospitals and nursing homes serving rooms with greater than four residents or consisting of multiple toilets, lavatories, etc., are required to have floor drains.

b) Size. Each floor drain shall be sized for its intended use and the surface area that it drains. Any floor drain or drain trap installed below a basement floor or underground shall be no less than two (2) inches in diameter.

c) Accessibility. Floor drains shall connect into traps, shall be accessible and readily cleaned, and shall be located so that they are easily visible.

d) Provision for Evaporation. Floor drain seals subject to evaporation shall be of the deep seal type, shall be fed by means of a priming device designed for that purpose, or shall be filled with vegetable oil.

e) Floor Drains in Food Establishments. If floor drains are installed in coolers, freezers, refrigerated holding areas, dressing rooms or processing rooms in any food (meat, milk, vegetable, fruit) establishment, they shall meet the following requirements:

1) Floor drains shall have a minimum inside diameter of four (4) inches and be of metallic construction.

2) Drainage lines from water closets and urinals shall not be connected with any other sanitary drainage lines having floor drains located in the above places within the building.

3) Floor drains must be indirectly discharged to the drainage system, or a backwater valve that conforms with the requirements of Section 890.550(b), (c), (d) and (e) shall be installed.

4) Floor drains shall comply with the requirements of Sections 890.1370(b), (c), and (d).

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Section 890.1380 Storm Water Drainage Within a Building

Any piping installed within a building for the purpose of carrying storm water from a roof and connected to a building drain or building sewer shall conform with the requirements of Appendix A, Table A1, and Sections 890.910 through 890.930.

SUBPART K: VENTS AND VENTING

Section 890.1410 Materials

a) All piping and fittings used in the vent system shall conform to requirements of Appendix A, Tables A1 and A7.

b) A system carrying acid waste shall be of approved materials as in Appendix A, Table A1. Vent piping shall be of the same material as the waste piping.

Section 890.1420 Stack Vents, Vent Stacks, Main Vents

a) Design. A properly designed and installed venting system, in conjunction with the soil or waste system, is essential to protect trap seals and prevent siphonage, aspiration, or back pressure. The venting system shall be designed and installed to permit the admission or emission of air so that under normal and intended use the seal of any fixture trap shall never be subjected to a pneumatic pressure differential of more than a one (1) inch water column. If a trap seal is subject to loss by evaporation, means shall be provided to prevent loss of the trap seal (See Section 890.410(f)).

b) Installation. A stack vent, vent stack or a main vent shall be installed with a soil or waste stack whenever back vents, relief vents, or other branch vents are required. See Appendix K: Illustration A.

c) Terminal. Vents shall terminate independently above the roof to the outside atmosphere, or shall be connected to another vent at least six (6) inches above the flood-level rim of the highest fixture. See Appendix K: Illustration B.

d) Main Stack. Each building in which plumbing is installed shall have at least one main vent stack no smaller than three (3) inches for each building drain installed. See Appendix A: Table K. See Appendix K: Illustration C.

e) Building Sub-drain Sump Vent Sizes. Building sub-drain sump vents shall be sized in accordance with Appendix A: Table K.

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Section 890.1430 Vent Terminals

a) Roof Extensions. Extensions of vent pipes through a roof shall be terminated at least 12 inches above such roof unless a roof is to be used for any purpose other than weather protection. If a roof is to be used for any purpose other than weather protection, the vent shall be extended at least seven (7) feet above the roof. See Appendix K: Illustration D.

b) Flashings. Each vent terminal shall be made water-tight with the roof by proper flashing.

c) Location of Vent Terminal. No vent terminal from a drainage system shall be directly beneath a door, window, overhang or other ventilating intake opening of the building, nor shall any such vent terminals be within 12 feet horizontally of such an opening unless it is at least two (2) feet above the top of such opening. See Appendix K: Illustration E.

d) Extensions Outside Building. No soil, waste or vent pipe extension (except for vent terminals as provided in (a) and (c) above) shall be located on the outside of a wall of any building, but shall be installed inside the building. Vents located within an exterior wall or in a wall adjacent to an unheated space shall be protected from freezing.

e) Flag poling. Vent terminals shall not be used for the purpose of supporting flag poles, television aerials, or similar purposes.

Section 890.1440 Vent Terminal Size

a) Vent Terminal Size. Each vent extension through the roof shall be a minimum of three (3) inches in diameter and no smaller than the vent which it terminates. Vent terminals shall not be screened.

b) Increasers. Changes in size or diameter of vent terminals shall be made by the installation of a long increaser commencing at least one (1) foot below the roof.

Section 890.1450 Vent Grades and Connections

a) Grade. All vent and branch vent pipes shall be installed so as to drain back to the soil or waste pipe. See Appendix K: Illustration F.

b) Vertical Rise. Where vent pipes connect to a horizontal soil or waste pipe, the vent shall be taken off above the center line of the soil or waste pipe, and the vent pipe shall rise vertically, or at an

angle not more than 45 degrees from the vertical before offsetting horizontally or before connecting to the branch vent. See Appendix K: Illustration G.

c) Height Above Fixtures. The connection between a vent pipe and a vent stack or stack vent shall be made at least six (6) inches above the flood-level rim of the highest fixture served by the vent. Horizontal vent pipes forming branch vents or relief vents shall be at least six (6) inches above the flood-level rim of the highest fixture served. See Appendix K: Illustration H.

d) Kitchen Sinks: Horizontal kitchen sink vents shall be above the flood level rim of the fixture.

e) Heel or Side-Inlet Bend. A heel or side-inlet quarter bend or closet bend shall not be used as a dry vent when the inlet is placed in a horizontal position. See Appendix K: Illustration I. Heel or side inlet quarter or closet bends are permitted only in cases where the fixture connecting thereto is vented. See Appendix K: Illustration J.

Section 890.1460 Fixtures Back-to-Back

Distance. Two fixtures set back-to-back, within the distance allowed between a trap and its vent, may be served with one (1) continuous soil or waste-vent pipe, provided that each fixture discharges separately into an approved double fitting having inlet openings at the same level. See Section 890.1480(b). See Appendix K: Illustration K.

Section 890.1470 Fixture Trap Vents

a) Distance of Trap From Vent. Each fixture trap shall have a protecting vent so located that the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in Appendix A, Table I. See Appendix K: Illustration L.

b) Trap Weir. The vent pipe opening from a soil or waste pipe, except for water closets or fixtures with an integral trap, shall not be below the trap weir. See Appendix K: Illustration M.

Section 890.1480 Types of Fixture Trap Vents

a) Trap Vent. No trap vent shall be installed within two pipe diameters of the trap weir. See Appendix K: Illustration N.

b) Common Vent. A common vent, installed vertically, may be used for two fixture traps when both traps connect with a vertical waste at the same level. See Appendix K: Illustration O.

c) Vertical Wet Vent. A vertical wet vent may be used for two fixtures set on the same floor level, but connecting at different levels in the stack, provided the vertical drain is one (1) pipe diameter larger than the upper fixture drain and that both drains conform to Appendix A: Table I. See Appendix K: Illustrations P and Q.

d) Mechanical Vents. Mechanical devices shall not be installed in lieu of vent piping.

Section 890.1490 Installation of Vents for Fixture Traps

a) Hydraulic Gradient. Fixture drains shall be vented within the hydraulic gradient between the trap outlet and the junction with another drain. The hydraulic gradient as applied to a gravity drain and its vent connection is interpreted as the grade line. See Appendix A: Table I. See Appendix K: Illustration R.

b) Different Level. If any stack has fixtures entering at different levels, the fixtures other than the fixtures entering at the highest level shall be vented, except as otherwise provided. See Section 890.1510.

c) Horizontal Branch Drains. Where a water closet discharges into a branch drain, each fixture discharging into that branch drain shall be individually vented; however, this does not include battery or circuit venting.

Section 890.1500 Installation of Wet Venting

a) Single Bathroom Groups. A single bathroom group of fixtures may be installed with the drain from an individually vented lavatory, a kitchen sink, or combination fixture serving as a wet vent for a bathtub or shower and for the water closet provided that:

1) Not more than four (4) drainage fixture units drain into a two (2) inch diameter wet vent; and

2) The horizontal branch shall be a minimum of two (2) inches and connect to the stack at the same level as the water closet drain. It may also connect to the water closet bend. See Appendix K: Illustration S.

b) Double Bathroom Groups. Bathroom groups back-to-back on the top floor consisting of two (2) lavatories and two (2) bathtubs or showers may be installed on the same horizontal branch with a common vent for the lavatories and with no individual vent for bathtubs or showers, provided the wet vent is two (2) inches in diameter, and the length of the fixture drain conforms to Appendix A: Table E. See Appendix K: Illustration T.

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c) Multi-story Bathroom Groups. On the lower floors of a multi-story building, the waste pipe from one (1) or two (2) lavatories may be used as a wet vent for one (1) or two (2) bathtubs or showers provided that:

1) The wet vent and its extension to the vent stack is two (2) inches in diameter;

2) Each water closet below the top floor is individually back-vented; and

3) The vent stack is sized as given in Appendix A: Table J. See Appendix K: Illustrations U and V.

Section 890.1510 Stack Venting

One-Bathroom Group. Except as provided in Section 890.1490(b), a group of fixtures, consisting of one (1) bathroom group and a kitchen sink or combination fixture, may be installed without individual fixture vents, in a one-story building or on the top floor of a building, provided each fixture drain connects independently to the stack and the water closet and bathtub or shower drain enters the stack at the same level and in accordance with the requirement in Appendix A: Table I. See Appendix K: Illustrations W and X.

Section 890.1520 Circuit and Loop Venting

a) Battery Venting. A soil or waste branch to which two (2) but not more than eight (8) floor outlets, eight (8) water closets, eight (8) pedestal urinals, eight (8) shower stalls or eight (8) floor drains are connected in battery, may be vented by a circuit vent which shall take off from in front of the last fixture connection. Blowout type fixtures are prohibited. In addition, lower floor branches serving more than three (3) water closets shall be provided with a relief vent taken off in front of the first fixture connection. The horizontal branch for its full length to the farthest fixture opening shall be uniformly sized based on the total drainage fixture load as listed in Appendix A: Tables G, H and L. When lavatories or similar fixtures discharge above such branches, each vertical branch shall be provided with a continuous vent. See Appendix K: Illustration Y.

b) Dual Branches. When parallel horizontal branches serve a total of eight (8) water closets (4 on each branch), each branch shall be provided with a relief vent at a point between the two water closets most distant from the soil stack. The horizontal branch for its full length to the farthest fixture opening shall be uniformly sized based on the total drainage fixture load as listed in Appendix A: Tables G, H and L. In addition, intermediate floor branches shall be provided with a relief vent taken off in front of the first fixture connection. When traps other than water closets discharge above the horizontal branch, each such trap shall be provided with a continuous vent. See Appendix K: Illustration Z.

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c) Vent Connections. When the circuit or relief vent connections are taken off the horizontal branch, the vent branch connection shall be taken off vertically from the top of the horizontal branch. See Appendix K: Illustration AA.

d) Fixtures Back-To-Back in Battery. When fixtures are connected to one (1) horizontal branch through a double "Y", or a sanitary cross in a vertical position, a common vent for each two fixtures back-to-back shall be provided. See Appendix K: Illustration BB.

e) Fixture Connections. Branch wastes and fittings for circuit vented fixtures shall be installed so that the fixture drain enters the side of the branch drain. See Section 890.1320(i) and Appendix K: Illustrations Y and CC.

f) Circuit and Loop Vented Fixtures. When circuit and loop vented fixtures are installed in a multi-story building, a relief vent shall be provided at the base connection into the horizontal. This is done by connecting the vent stack, full-size, into or near the base of the soil stack, or by connecting the vent stack directly into the horizontal branch near the soil stack. The vent shall be carried full size. See Appendix K: Illustration DD.

Section 890.1530 Pneumatic Ejectors

An air pressure relief vent from a pneumatic ejector shall not be connected to the regular venting system but shall be connected separately to the outside atmosphere terminating as required in Section 890.1430 for vent extensions through roofs. Such relief pipe shall be of sufficient size to relieve air pressure inside the ejector to atmospheric pressure within ten (10) seconds, but shall not be smaller than one and one-half (1 1/2) inches in diameter.

Section 890.1540 Relief Vents

Stacks with More Than Ten (10) Branch Intervals. Soil and waste stacks in buildings having more than ten (10) branch intervals shall be provided with a relief vent at each tenth interval, beginning with the top floor, or may be installed mid-way between the first and twentieth interval. The size of the relief vent shall be equal to the size of the vent stack to which it connects. The lower end of each relief vent shall connect to the soil or waste stack through a wye below the horizontal branch serving the floor, and the upper end shall connect to the vent stack through a wye at least 42 inches above the floor level.

Section 890.1550 Offsets at an Angle Less Than 45 Degrees from the Horizontal in Buildings of Five or More Stories

a) Offset Vents. Offsets less than 45 degrees from the horizontal in a soil or waste stack, except as provided in Section 890.1350, shall comply with Sections 890.1550(b) and (c) below. See Appendix K: Illustration CC.

b) Separate Venting. The stack section below the offset and the stack section above the offset shall be vented as separate soil or waste stacks.

c) Offset Reliefs. Offsets shall be vented by installing a relief vent as a vertical continuation of the lower section of the stack or as a side vent connected to the lower section between the offset and the next lower fixture or horizontal branch. The upper section of the offset shall be provided with a yoke vent. The diameter of the vents shall not be less than the diameter of the main vent, or of the soil or waste stack, whichever is smaller.

Section 890.1560 Main Vents to Connect at Base

Main Vents. All main vents or vent stacks shall connect full size at their base to the building drain or to the main soil or waste pipe, at or below the lowest fixture branch. All vent pipes shall extend undiminished in size through the roof to the outside atmosphere, or shall be reconnected with the main soil or waste vent. See Appendix K: Illustration EE.

Section 890.1570 Vent Headers

Connection of Vents. Stack vents and vent stacks may be connected into a common vent header at the top of the stacks and then be extended through the roof to the outside atmosphere at one point. This header shall be sized as provided in Appendix A, Table K, the number of units being the sum of all units on all stacks connected thereto, and the developed length being the longest vent length from the interception at the base of the most distant stack to the vent terminal to the outside atmosphere, as a direct extension of one (1) stack.

Section 890.1580 Size and Length of Vents

a) Size of Water Closet Vents. A water closet shall have at least a two (2) inch vent.

b) Size of Individual Vents. The diameter of an individual vent shall be at least one and one-quarter (1 1/4) inches and at least one-half (1/2) the diameter of the drain to which it connects (whichever is greater).

c) Size of Relief Vents. The diameter of a relief vent shall be at least one-half (1/2) the diameter of the soil or waste branch to which it is connected.

d) Size of Circuit Vents. The diameter of a circuit vent shall be at least one-half (1/2) the diameter of the horizontal soil or waste branch or the diameter of the vent stack, whichever is smaller. See Appendix A: Table L.

e) Size of Vent Piping. The size of vent piping shall be determined based upon its length and the total number of drainage fixture units connected thereto as provided in Appendix A: Table K. Vent piping serving floor drains shall be installed in such a manner as to minimize horizontal vent distances. No more than 20 percent of the maximum developed length may be installed in the horizontal position.

Section 890.1590 Combination Waste and Vent (Floor and Hub Drains Only)

a) Combination Waste and Vent. A combination waste and vent is permitted only where structural conditions preclude conventional plumbing. Appurtenances delivering large quantities or surges of water shall not be discharged to a combination waste and vent.

1) The waste piping and trap in a combination waste and an end vented (both ends) system shall be a minimum of four (4) inch diameter and in accordance with Appendix A, Tables G and H. The waste piping and trap shall be at least two pipe increments larger than the pipe size required by Appendix A, Tables G and H, and at least two pipe increments larger than any fixture/appurtenance discharge tail piece.

2) A branch more than 15 feet in length shall be separately vented. The minimum area of any vent installed in a combination waste and vent system shall be one-half (1/2) the area of the drain pipe served.

3) Sinks, lavatories and other fixtures that are roughed-in above the floor shall not be permitted on a combination waste and vent system.

4) Long mains shall be provided with additional relief vents located at intervals of every one-hundred feet. See Appendix K: Illustration FF.

Section 890.1600 Special Venting for Island Fixtures

a) Traps for island sinks and similar equipment shall be roughed-in above the floor and shall be vented by extending the vent as high as

possible, but at least the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately down stream from the vertical fixture drain.

b) The returned vent shall be connected to the horizontal drain through a Y-branch fitting and shall be provided with a vent taken off the vertical fixture vent by means of a Y-branch immediately below the floor and extending to the nearest partition and then through the roof to the outside atmosphere or may be connected to other vents at a point at least six (6) inches above the flood level rim of the fixture served. Drainage fittings shall be used on all parts of the vent below the floor level and a minimum grade of one-quarter (1/4) inch per foot back to the drain shall be maintained. The returned bend used under the drainboard shall be a one-piece fitting or assembly of a 45 degree, a 90 degree, and a 45 degree elbow in the order named. See Section 890.1340 and Appendix K: Illustration GG.

SUBPART L: PLUMBING SYSTEMS/CORRECTIONAL FACILITIES

Section 890.1710 General Requirements

a) All material, fittings, appurtenances and devices shall be in accordance with standards listed in Appendix A, Tables A1, A2, A3, A4, A5, A6 and A7.

b) The drainage and venting for security fixtures shall be in accordance with Sections 890.910 through 890.930, 890.1010 through 890.1060, 890.1310 through 890.1380 and Sections 890.1410 through 890.1600.

c) Drainage within segration units shall be sized 50% larger than (or one and one-half (1.5) times that) required in Appendix A, Table G or H.

d) The water supply for security fixtures shall be in accordance with Sections 890.1110 through 890.1240. Note: A full-way valve for each cell shall be located outside the cell.

Section 890.1720 Water Closets

a) All water closets shall be of stainless steel (Type 304) construction, including framework, reinforcing and interior piping.

b) The bowl and flushing rim shall not be less than 14 gauge.

c) The water closet shall have a minimum of a three (3) inch diamenter, fully enclosed stainless steel P-trap and shall pass a two and five-eighths (2 5/8) inch diameter ball.

d) All welds shall be ground smooth, and exterior surfaces polished.

e) Integral contoured seats that are self-draining and crevice-free shall be a part of the water closet.

f) All water closets shall be tankless.

g) All water closets shall have push button flush valves.

h) Vitreous china water closets complying with ANSI Standard A.112.19.1 may be used.

Section 890.1730 Urinals

All stainless steel urinals shall be fabricated of stainless steel (Type 304) with exposed edges polished. All exposed welds are to be ground smooth. All construction is to be free from visible voids, seams or crevices. The trap shall provide a two (2) inch seal and pass a one and nine-tenths (1.9) inch diameter ball. It shall be fitted with an integrally welded steel beehive dome strainer. Vitreous china urinals complying with ANSI A.112.19.2 may be used.

Section 890.1740 Combination Lavatory/Toilet

a) The cabinet shall be of stainless steel (Type 304) with a minimum of 12 gauge for the cabinet and 14 gauge for the top.

b) The cabinet top shall have a backsplash.

c) The lavatory shall include adjustable control valves on the hot and cold, self-closing filler valve with a maximum one-half (1/2) gpm flow control and a combination penal filler/bubbler spout. A maximum of 115 degrees F temperature is allowed.

d) The lavatory drain shall not have a mechanical air vent attached.

e) Supply inlets to the lavatory shall have screw driver stops, gate or globe valves.

f) The water closet shall have no less than a three (3) inch diameter, fully enclosed stainless steel toilet P-trap and shall pass a two and five-eighths (2 5/8) inch diameter ball.

Section 890.1750 Service Sinks/Lavatory

a) Security Sinks/Lavatories shall be fabricated of stainless steel (Type 304) with the exterior surfaces polished. All exposed welds are to be ground smooth and there shall be no visible voids, seams or crevices.

b) Security Sink/Lavatory shall include the following features; self-closing valve set with integral stops, gate or globe valves, reversible union inlets and plain-end filler spout; grid strainer drain, elbow waste with a two (2) inch female connection. Timing of control valves shall be field adjustable from five (5) to 40 seconds, and shall not require shutting off the supply lines.

c) The waste assembly shall conform with Section 890.410(g)(1), and be of brass, copper or bronze construction.

d) All lavatories shall have a combination penal filler/bubbler spout.

e) Drains with mechanical air vents are prohibited.

Section 890.1760 Sinks

a) All sinks for food preparation or cleansing of utensils used to prepare food shall be of stainless steel (Type 304) construction, including framework and reinforcing.

b) All welds shall be ground smooth, and exterior surfaces polished.

c) All sinks shall be provided with waste outlets at least one and one-half (1 1/2) inches in diameter. A crossbar, strainer, or other means shall be provided to restrict the clear opening of the waste outlet. No kitchen sink basket shall be less than three and one-half (3 1/2) inches in diameter.

d) Waste lines and water supply lines shall conform with Sections 890.130 through 890.1600.

Section 890.1770 Cabinet Showers

a) All cabinet showers shall be unitized one-piece fixtures of stainless steel with the exposed surfaces polished, except the receptor which shall have a non-skid surface. All exposed welds shall be ground smooth and all construction is to be free of visible voids, seams or crevices.

b) Shower compartments shall have at least 1,296 square inches outside dimensions and shall be at least 32 inches in shortest dimension outside dimensions.

c) The valve shall be an adjustable type with a maximum of two and one-half (2.5) gpm flow control, integral screwdriver stop valve.

d) The shower shall include a stainless steel soap dish, shower head and clothes hook, designed for correctional facility use.

e) The shower head within shower cabinets or site constructed showers shall be located in such a manner as not to pose an insanitary or nuisance condition outside the shower area. The shower heads are to be on a side wall or overhead so as not to spray water out of the shower cabinet or area and create a slipping hazard on the tile floor or cause water to pond in areas other than the shower area.

Section 890.1780 Flush Valves

a) All flush valves for water closets or urinals shall conform with Sections 890.650(e) and 890.660(b) of this Part.

b) All flush valves shall feature rubber diaphragm operation, non-hold-open push buttons (and handles), union check stops and vacuum breakers as approved in this Part. See Sections 890.1130(c) and 890.1140(a) and (b).

c) Flush valves shall be concealed wherever possible.

Section 890.1790 Soap Dishes

a) Soap dishes shall be of the air circulating, self draining design.

Section 890.1800 Floor Drains

a) Location. Floor drains shall not be located within a cell.

b) Required Number. There must be at least one (1) floor drain for each three (3) cells on a continuous floor level. Double-tier cells require floor drains based upon the number of lower tier cells.

c) Drain Cover. Each drain cover shall be securely anchored by means of vandal resistant screws.

SUBPART M: INSPECTIONS, TESTS, MAINTENANCE AND ADMINISTRATION

Section 890.1910 Inspections

a) A plumbing system or any part thereof shall not be enclosed, covered up or used until the system has been inspected and approved. It is the responsibility of the licensed plumber or plumbing contractor on the job to arrange for inspection by the Department. The Department may require tests as listed in Section 890.1930 to determine whether or not the system as installed is in compliance with this Part. Plumbing found not to be in compliance with this Part shall not be approved. A plumbing system not complying with the provisions of this Part shall not be used until such time as it is brought into compliance with this Part. After the plumbing corrections have been made, the plumbing contractor shall arrange for reinspection.

Section 890.1920 Testing of Plumbing System

Defective Plumbing. Where there is reason to believe that the plumbing system fails to comply with this Part, the Department may require such tests (see Section 890.1930) and inspections as may be necessary to assure that any defects are found and corrected.

a) Exposure of Work. When plumbing work has been covered or concealed prior to being tested and approved, it shall be exposed for testing. It is the responsibility of the licensed plumber or plumbing contractor to expose plumbing for inspection purposes.

b) Equipment, Material and Labor for Tests. All equipment, material and labor required for inspection and testing a plumbing system or any part thereof is the responsibility of the licensed plumber or plumbing contractor.

Section 890.1930 Test Methods

a) Roughed-In Plumbing. The piping of plumbing drainage and venting systems shall be tested upon completion of the roughed-in piping installation by water or air to prove watertight. The Department may require the removal of any cleanout plugs to ascertain if the pressure has reached all parts of the system.

b) Water test. The water test shall be applied to the drainage system either in its entirety or in sections after piping has been roughed-in. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest opening of the section being tested and each section shall be filled with water; however, a section shall not be tested with less than a ten (10) foot head of water. In testing successive sections, at least the upper ten (10) feet of the next higher section shall be tested, so that every joint or pipe in the building (except the uppermost ten (10) feet of the system) shall be submitted to a test of at least a ten (10) foot head of water. The water shall be kept in the system or in the portion being tested for at least 15 minutes before inspection starts; and inspection or testing of the system shall confirm that the system is tight at all points.

c) Air test. An air test shall be made by attaching an air compressor testing apparatus to any suitable opening and after closing all other inlets and outlets to the system, forcing air into the system until there is a uniform gauge pressure of five (5) pounds per square inch (p.s.i.) or sufficient to balance a column of mercury ten (10) inches in height. This pressure shall be held without introduction of additional air for a period of at least fifteen (15) minutes.

d) Water Supply System. Upon completion of a section, or the entire water supply system, the system shall be tested and proved tight under a water pressure at least one and one-half (1.5) times the system pressure but at least 100 p.s.i., by air or water. When exceeding 100 p.s.i., the test shall be of the hydrostatic type only. Testing pressure shall be maintained for 15 minutes. The water used for this test shall be from a potable water supply.

e) Finished Plumbing. After the plumbing fixtures have been set and their traps filled with water, their connections shall be tested and proved gas and watertight. The test for gas and water tightness of the completed drainage and vent system shall be made by filling all traps with water, and then introducing into the system a pungent, thick smoke produced by one or more smoke machines. When the smoke appears at stack openings on the roof, the stack opening shall be closed and a pressure equivalent to a one (1) inch water column shall be maintained for the period of the inspection. Where the Department finds that a smoke test cannot be performed, a peppermint test may be substituted. A peppermint test is conducted by introducing two (2) ounces of oil of peppermint into the roof terminal of every line or stack to be tested. Immediately after the oil of peppermint is introduced into the system, ten (10) quarts of hot (160 degrees F) water shall be added, and each terminal sealed. The detection of the odor of peppermint at any trap or at any other point in the plumbing system denotes a leak. Individuals whose body or clothing have come in contact of oil of peppermint shall be excluded from the area until the test is completed.

f) Building Sewer. The building sewer shall be tested by insertion of a test plug at the point of connection with the public sewer. The building sewer shall be filled with water under a head of at least ten (10) feet of water. The water level at the top of the water column shall not drop for at least 15 minutes.

Section 890.1940 General Administration

The plans and specifications for a plumbing system whose design does not comply with this Part must be submitted to the Department for approval prior to installation of such a plumbing system. Such approval shall be in writing from the Department and shall be based on a determination that the system is expected to perform and exhibit durability as if meeting the requirements of this Part.

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NOTICE OF PROPOSED RULES

Section 890.1950 Violations

a) Notice of Violation

1) Violators of this Part shall be informed of any violation at the time of inspection, followed by a formal notice in writing, including a deadline date for correction of the violation(s).

2. Factors to be considered in establishing deadline dates for correction shall include the nature and complexity of the violation, the stage of construction, the type of violation involved, the weather, and whether or not the violation represents a potential or immediate health hazard.

b) Reinspection. Upon receipt of information from the violator indicating correction of violations or upon expiration of the established deadline date, a reinspection shall be made.

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NOTICE OF PROPOSED RULES

Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A1 Approved Building Drainage/Vent Pipe

1)	Acrylonitrite Butadiene Styrene (ABS) Pipe	ASTM D 2661-1987 ASTM F 628-1988
	Joints	ASTM D 2235-1988
	Solvent Cement[1]	ASTM D 2235-1988
2)	Brass Pipe	ASTM B 43-1988
3)	Cast Iron Pipe	ASTM A 74-1987 ASTM A 888-1991 ASTM C 564-1988 CISPI 301-1990
4)	Copper/Copper Alloy Pipe	ASTM B 42-1988 ASTM B 302-1988
5)	Copper/Copper Alloy Tubing (K-L-M or DWV)[2]	ASTM B 75-1986 ASTM B 88-1988 ASTM B 251-1988 ASTM B 306-1988
6)	Galvanized Steel Pipe[2]	ASTM A 53-1988 ASTM A 120-1984
7)	Glass Fiber Borosilicate Pipe[3]	ASTM C 1053-1985
8)	High Silicon Content Cast Iron Pipe[3]	ASTM A 377-1984
9)	Polypropylene Pipe	ASTM F 492-1985
10)	Polyvinyl Chloride (PVC) Clear Pipe[3]	ASTM D 1784-1990
11)	Polyvinyl Chloride (PVC) Pipe and Fittings	ASTM D 2665-1988 ASTM D 2949-1987
	Polyvinyl Chloride (PVC) Pipe with Cellular Core[4]	ASTM F 891-1990
	Joints	ASTM D 2855-1983
	Primer	ASTM F 656-1988
	Solvent Cement[1]	ASTM D 2564-1988
13)	Solder	ASTM B 32-1989

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NOTICE OF PROPOSED RULES

Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A1 Approved Building Drainage/Vent Pipe (Continued)

Agency Notes:

1 Solvent cement must be handled in accordance with ASTM F 402-1988.
2 Type M copper tubing and galvanized steel pipe are approved for above-ground uses only.
3 Approved for corrosive waste or corrosive soil conditions.
4 PVC pipe with cellular core is approved only for gravity drainage and venting. It is not approved for pressurized drain, waste or venting applications.

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A2 Approved Materials for Building Sewer

1)	Acrylonitrite Butadiene Styrene (ABS) Pipe	ASTM D 2661-1987 ASTM D 2751-1988 ASTM F 628-1988
	Joints	ASTM D 2235-1988
	Solvent Cement[1]	ASTM D 2235-1988
2)	Asbestos Cement Pipe	ASTM C 428-1981
3)	Bituminized Fiber Pipe	ASTM D 1861-1988 ASTM D 1862-1988
4)	Cast Iron Pipe	ASTM A 74-1987
5)	Copper/Copper Alloy Tubing	ASTM A 88-1986
6)	Concrete Pipe	ASTM C 14-1988 ASTM C 76-1988
7)	Polyvinyl Chloride (PVC) Pipe	ASTM D 2665-1988 ASTM D 2949-1987 ASTM D 3034-1988
	Joints	ASTM D 2855-1983
	Primer	ASTM F 656-1988
	Solvent Cement[1]	ASTM D 2564-1988
8)	Vitrified Clay Pipe Pressurized by a Pump or Ejector is Prohibited	ASTM C 4-1981 ASTM C 700-1988
9)	Solder	ASTM B 32-1989

Agency Note:

1 Solvent cement must be handled in accordance with ASTM F 402-1988.

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A3 Approved Materials for Water Service Pipe

1)	Acrylonitrite Butadiene Styrene (ABS) Pipe	ASTM D 1527-1988 ASTM D 2282-1988
	Joints	ASTM D 2235-1988
	Solvent Cement[1]	ASTM D 2235-1988
2)	Brass Pipe	ASTM B 43-1988
3)	Cast Iron (ductile iron) Water Pipe	ASTM A 377-1984
4)	Chlorinated Polyvinyl Chloride (CPVC) Pipe	ASTM D 2846-1988 ASTM F 441-1988 ASTM F 442-1988
	Joints	ASTM D 2846-1988
	Solvent Cement (Orange)[1]	ASTM F 493-1988
5)	Copper/Copper Alloy Pipe	ASTM B 42-1988 ASTM B 302-1988
6)	Copper/Copper Alloy Tubing	ASTM B 88-1988
7)	Galvanized Steel Pipe	ASTM A 53-1988 ASTM A 120-1984
8)	Poly Butylene (PB) Pipe/Tubing	ASTM D 2662-1988 ASTM D 2666-1988 ASTM D 3309-1988
9)	Polyethylene (PE) Pipe	ASTM D 2239-1988
10)	Polyethylene (PE) Tubing	ASTM D 2737-1988
11)	Polyvinyl Chloride (PVC) Pipe	ASTM D 1785-1988 ASTM D 2241-1988 ASTM D 2672-1988
	Joints	ASTM D 2855-1983
	Primer	ASTM F 656-1988
	Solvent Cement[1]	ASTM D 2564-1988
12)	Welded Copper Water Tube	ASTM B 447 WK, WL, and WM-1989

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A3 Approved Materials for Water Service Pipe (Continued)

13)	Solder	ASTM B 32-1989

Agency Note:

1 Solvent cement must be handled in accordance with ASTM F 402-1988.

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A4 Approved Materials for Water Distribution Pipe

1)	Brass Pipe	ASTM B 43-1988
2)	Chlorinated Polyvinyl Chloride (CPVC) Pipe/Tubing	ASTM D 2846-1988 ASTM F 441-1988 ASTM F 442-1988
	Joints	ASTM D 2846-1988
	Solvent Cement (Orange)[1]	ASTM F 493-1988
3)	Copper/Copper Alloy Pipe	ASTM B 42-1988 ASTM B 302-1988
4)	Copper/Copper Alloy Tubing	ASTM B 88-1988
5)	Cross Linked Polyethylene[2]	ASTM F 876-1990 ASTM F 877-1989
6)	Galvanized Steel Pipe	ASTM A 53-1988 ASTM A 120-1984
7)	Poly Butylene (PB) Pipe/Tubing	ASTM D 3309-1988
8)	Welded Copper Water Tube	ASTM B 447 WK, WL, and WM-1989
9)	Solder	ASTM B 32-1989

Agency Notes:

1 Solvent cement must be handled in accordance with ASTM F 402-1988.
2 Cross Linked Polyethylene is approved only for above-ground use.

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A5 Approved Materials and Standards for Plumbing Fixtures

1)	Bidets	ASME/ANSI A112.19.2-1982
2)	Enameled Cast Iron Plumbing Fixtures	ASME/ANSI A112.1.9.1-1987
3)	Floor Drains	ASME/ANSI A112.21.1-1980
4)	Flushometer Bowls/Tanks	ANSI A112.19.6-1988
5)	Grease Interceptors	PDI (G101) 1985
6)	Low Volume (1.6 gpf) Water Closets[1]	ASME/ANSI A112.19.2-1990
7)	Plastic Bathtubs	ANSI Z124.1-1987
8)	Plastic Lavatory	ANSI Z124.3-1986
9)	Plastic Shower Recepters/Shower Stalls	ANSI Z124.2-1987
10)	Plastic Water Closets Bowls/Tanks	ANSI Z124.4-1986
11)	Porcelain Enameled Formed Steel Plumbing Fixtures	ASME/ANSI A112.19.4M-1984
12)	Stainless Steel Plumbing Fixtures (Residential)	ASME/ANSI A112.19.3-1987
13)	Vitreous China Plumbing Fixtures	ASME/ANSI A112.19.2-1982

Agency Notes:

The water pressure at each fixture installation must meet the manufacturer's minimum recommended level for the fixture.

1 Low volume (1.6 gpf) water closets are ONLY APPROVED FOR SINGLE FAMILY RESIDENTIAL USE.

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A6 Approved Standards for Plumbing Appliances/Appurtenances/Devices

1)	Anti-Backflow Freezeless Wall Hydrants	ASSE 1019-1986
2)	Anti-scald Control Valve	ASSE 1016-1991 with 1988 Revision
3)	Anti-siphon Self Drawing Frost Proof Silcock	ASSE 1019-1978
4)	Automatic Ice Making Equipment	NSF Std. #12-1987
5)	Automatic Storage Type Water Heater Less Than 50,000 BTU/PER/HR	ASHRAE 90A-1980/ ANSI Z21.10.1-1971
6)	Back Water Valves	ASME/ANSI A112.14.1-1986
7)	Circulating Tank, Instantaneous	ANSI 10.1-1971/UL 499
8)	Circulating Tank, Instantaneous, Automatic	ANSI 21.10.3-1971/UL.174-1977
9)	Detergent/Chemical Feeders for Commercial	NSF Std. #29-1987
10)	Dishwashing Machine (Commercial)	ASSE 1004-1991
11)	Dishwashing Machine (Residential)	ASSE 1006-1986
12)	Diverters for Residential-Anti-Siphon	ASME 1025-1978
13)	Double Check Detector Assembly	ANSI/ASSE 1048-1990
14)	Double Check With Atmospheric Vent	ASSE 1012-1978
15)	Double Check Valve Assembly	ASSE 1015-1988
16)	Drinking Fountains	ARI 1010-1985 or ANSI A112.19.2-1982
17)	Drinking Water Treatment Units-Health Effects	NSF Std. #53-1982
18)	Drinking Water Treatment Units-Aesthetic Effects	NSF Std. #42-1982
18)	Drinking Water Treatment Chemicals	NSF Std. #60-1986
19)	Dual Check Valve	ASSE 1024-1990
20)	Dual Check Valve (Carbonated Beverage) (Relief Port Required)	ASSE 1032-1980
21)	Food Waste Disposal (Commercial)	ASSE 1009-1991
22)	Food Waste Disposal (Residential)	ASSE 1008-1991
23)	Gas Water Heater Above 75,000 BTU	ANSI Z21.10.3-1971/AGA/ASME
24)	Gas Water Heater 75,000 BTU or Less	ANSI Z21.10.1-1971/AGA/ASME
25)	Gas Water Heater (Continuous Use)	ANSI Z21.10-1988
26)	Gas Water Heater - Space Heating	ANSI Z21.10.1a-1988
27)	Grease Interceptors	PDI-G 101-1985
28)	Handheld Showers	ASSE 1014-1979 with 1989 Revision
29)	Home Laundry Equipment	ASSE 1007-1986
30)	Hot Water Dispensers-Electrical	ASSE 1023-1988
31)	Hot Water Generating/Heat Recovery Equipment	NSF Std. #5-1983
32)	Ice Makers	UL 563-1975

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE A6 Approved Standards for Plumbing Appliances/Appurtenances/Devices (Continued)

33)	Oil Fired Water Heaters	UL 732-1975/ASME 1975
34)	Pressure Relief Valve	ANSI Z21.22-1986
35)	Pressurized Flushing Device	ASSE 1037-1986
36)	Reduced Pressure Detector Assembly	ANSI/ASSE 1047-1990
37)	Reduced Pressure Principle Backflow Preventer	ASSE 1013-1980
38)	Refuse Compactors/Compactor System	NSF Std. #13-1987
39)	Relief Valves For Hot Water System	ANSI Z21.22-1986
40)	Reverse Osmosis Drinking Water Treatment System	NSF Std. #58-1986
41)	Spray Type Dishwashing Machine for Commercial	NSF Std. #3-1989
42)	Thermostatic Mixing Valve Domestic Use	ASSE 1017-1986
43)	Trap Seal Primer Valve	ASSE 1018-1991
44)	Vacuum Breakers, Anti-siphon	ASSE 1001-1990
45)	Vacuum Breakers Hose Connection	ASSE 1011-1982
46)	Vacuum Breaker (Laboratory Faucet)	ASSE 1035-1984
47)	Vacuum Breakers Pressure Type	ASSE 1020-1982
48)	Vaccuum Relief Valve	ANSI Z21.22-1979
49)	Vending Machine for Food/Beverage	NSF Std. #25-1987
50)	Water Closet Tank Ball Cock	ASSE 1002-1986
51)	Water Hammer Arrestors	ASSE 1010-1991
52)	Water Heater Drain Valve	ASSE 1005-1986
53)	Water Pressure Reducing Valves (Domestic)	ASSE 1003-1991

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TABLE A7 Approved Standards for Fittings

1)	Cast Iron Threaded Drainage Fittings	ANSI B16.12-1983
2)	Cast Copper Alloy Solder Pressure Fittings	ANSI B16.18-1984
3)	Cast Copper Alloy Solder Drainage Fitting (DWV)	ANSI B16.23-1984
4)	Copper Fittings	ASME B16.15-1985
		ANSI B16.18-1984
		ANSI B16.22-1989
		ANSI B16.23 1984
		ANSI B16.26-1988
		ANSI B16.29 1986
		ASME B16.32-1984
5)	Forged Steel Fittings, Socket, Welded, Threaded	ANSI B16.11-1980
6)	Gray Iron/Ductile Iron	AWWA C 110-1987
		AWWA C 151-1986
7)	Malleable Iron	ASME B 16.3-1985
8)	Plastic	ASTM D 2466-1988
		ASTM D 2467-1988
		ASTM D 2468-1988
		ASTM D 2564-1988
		ASTM D F409-1988
		ASTM D F438-1988
		ASTM D F439-1988
9)	Rough Brass Fittings	ANSI A112.18.1-1979
10)	Steel	ASME B 16.9-1986
		ASME B 16.11-1980
		ASME B 16.28-1986
11)	Wrought Copper/Bronze Solder Pressure Fitting	ANSI B16.22-1989
12)	Wrought Copper and Wrought Copper Alloy Solder [Drainage Fittings]	
		ANSI B16.29-1986
		ASME B16.4-1985
		ANSI B16.12-1983
13)	Wrought Steel Buttwelding Fittings	ANSI B16.9-1986
14)	Wrought Steel Buttwelding Short Radius Ells	ANSI B16.28-1986

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures

Type of Building	All Facilities for Employee Use		Single Dwelling or Unit of Multiple Dwelling; Condo. or Apartment; or Hotel/Motel Unit
	Male	Female	
Water closets (fixtures per person)	For 1-5 Total Employees See rule 890.810(b)(1)		1 per dwelling or unit
	1: 1- 15	1: 1- 15	
	2: 16- 35	2: 16- 35	
	3: 36- 55	3: 36- 55	
	4: 56- 80	4: 56- 80	
	5: 81-110	5: 81-110	
	Over 110, add 1 fixture per restroom for each additional 40 males/females. (See Footnote #1)		
Urinals	See footnote #2	See foonote #2	--
Lavatories[3] (fixtures per person)	1: 1- 15	1: 1- 15	1 per dwelling or unit
	2: 16- 35	2: 16- 35	
	3: 36- 60	3: 36- 60	
	Over 60, add 1 fixture per restroom for each additional 45 males/females.		
Bathtubs/Showers	1 per 10[7] (If Required)	1 per 10[7] (If Required)	1 per dwelling or unit
Drinking fountains[4] (fixtures per person)	1 per 75		--
Other Fixtures[5]	----------		1 Kitchen Sink; 1 Laundry Tray or Connection for Washer[5]

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Dormitories		Assembly Places: Sports Arenas, Stadiums, Convention Halls, Etc.	
	Male	Female	Male	Female
Water Closet (Fixtures per person)	1 per 10 Add 1 fixture for each additional 25 males over 10; and 1 for each additional 20 females over 8.	1 per 8	1: 1-100 2:101-200 3:201-400 4:400-800 Over 800, add 1 fixture for each additional 700 males and 1 for each 200 females. See Footnote #1	2: 1-100 3:101-150 4:151-200 5:201-300 6:301-400 7:401-500 8:501-650 9:651-800
Urinals (Fixtures per person)	1 per 25 Over 150, add 1 fixture for each 50 males added; over 400, add 1 for each 200 males added.[2]	See Footnote #2	1: 1-100 2:101-200 3:201-400 4:401-600 Over 600, add 1 fixture for each additional 250 persons.	See Footnote #2
Lavatories[3] (Fixtures per person)	1 per 12 Over 12, add 1 fixture for each additional 20 males and 1 for each 15 females.	1 per 12	1: 1-200 2: 201-400 3: 401-750 Over 750, add 1 fixture per restroom for each added 400 males/females.	1: 1-200 2: 201-400 3: 401-750
Bathtubs, Showers (Fixtures per person)	1 per 8 For females, add 1 bathtub per 30; over 150, add 1 per 50.		None	

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Dormitories		Assembly Places: Sports Arenas, Stadiums, Convention Halls, Etc.	
	Male	Female	Male	Female
Drinking Fountains[4] (Fixtures per person)	1 per 75		1 per 75	
Other Fixtures (Fixtures per person)	1 Service Sink per Floor		1 Service Sink per Floor	

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Assembly Places: Theaters, Auditoriums, Other Facilities for Spectator Events		Mercantile Units, Malls, Stores, Etc.	
	Male	Female	Male	Female
Water Closet (Fixtures per person)	1: 1-100 2:101-200 3:201-400 4:400-800 Over 800, add 1 fixture for each additional 400 males and 1 for each 170 females. See Footnote #1	2: 1-100 3:101-150 4:151-200 5:201-300 6:301-400 7:401-500 8:501-650 9:651-800	1: 1-100 2:101-200 3:201-400 4:400-800 Over 800, add 1 fixture for each additional 500 males and 1 for each 175 females. See Footnote #1	2: 1-100 3:101-150 4:151-250 5:251-350 6:351-500 7:501-650 8:651-800
Urinals (Fixtures per person)	1: 1-100 2:101-200 3:201-400 4:401-600 Over 600, add 1 fixture for each additional 300 males.	See Footnote #2	1: 1-200 2:201-400 3:401-600 4:601-800 Over 800, add 1 fixture for each additional 300 males.	See Footnote #2
Lavatories[3] (Fixtures per person)	1: 1-200 2: 201-400 3: 401-750 Over 750, add 1 fixture per restroom for each added 400 males/females.	1: 1-200 2: 201-400 3: 401-750	1: 1-200 2: 201-400 3: 401-750 Over 750, add 1 fixture per restroom for each added 350 males/females.	1: 1-200 2: 201-400 3: 401-750
Drinking Fountains[4] (Fixtures per person)	1 per 75		1 per 75	
Other Fixtures (Fixtures per person)	1 Service Sink per Floor		1 Service Sink per Floor	

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TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Worship Places and Funeral Homes		Businesses Selling Motor Fuel to the Public/ Public Transportation Stations/Terminals	
	Male (See Footnote #1)	Female	Male	Female
Water Closets (Fixtures per person)	1 per 250	1 per 125	1 per station	1 per station
Urinals (Fixtures per person)	1 per 250	See Footnote #2	None	None
Lavatories[3] (Fixtures per person)	1 per 125	1 per 125	1 per station	1 per station
Bathtubs/Showers (Fixtures per person)	None	None	None	None
Drinking Fountains[4] (Fixtures per person)	None	None	None	None
Other Fixtures (Fixtures per person)	1 Service Sink		None	

Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Office Buildings/ Public Buildings		Restaurants, Pubs, Lounges, Nightclubs, and Places Serving Food or Liquid to be Consumed on the Premises	
	Male	Female	Male	Female
Water Closet (Fixtures per person)	1: 1-15 2: 16-35 3: 36-55 4: 56-80 5: 81-110 Over 110, add 1 fixture per restroom for each additional 40 males/ females. See Footnote #1	1: 1-15 2: 16-35 3: 36-55 4: 56-80 5: 81-110	1: 1-100 2:101-300 Over 300, add 1 fixture for each additional 200 males and 1 fixture per each 100 females. See Footnote #1.	1: 1-50 2: 51-100 3:101-150 4:151-250
Urinals (Fixtures per person)	See Footnote #2		1: 1-150 Over 150, add 1 fixture for each added 150 males.	See Footnote #2
Lavatories[3] (Fixtures per person)	1: 1-15 2: 16-35 3: 36-60 4: 61-90 5:91-125 Over 125, add 1 fixture per restroom for each additional 45 males/ females. See Footnote #1	1: 1-15 2: 16-35 3: 36-60 4: 61-90 5:91-125	1: 1-100 2:101-200 3:201-400 Over 400, add 1 fixture per restroom for each 200 additional males/ females. See Footnote #1	1: 1-100 2:101-200 3:201-400
Drinking Fountains[4] (Fixtures per person)	1 per 75		----------	
Other Fixtures (Fixtures per person)	1 Service Sink per floor		1 Service Sink as required by 77 Ill. Adm. Code 750 See Footnote #6	

Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Schools-Student Use: Nursery, Elementary		Schools-Student Use: Secondary, Colleges, Universities, Adult Centers, etc.	
	Male	Female	Male	Female
Water Closets (Fixtures per person)	1:1-20 2:21-50 over 50 add 1 fixture per restroom for each additional 50 persons. See Footnote #1	1:1-20 2:21-50	1 per 40 See Footnote #1	1 per 20
Urinals (Fixtures per person)	See Footnote #2	See Footnote #2	1 per 35	See Footnote #2
Lavatories[3] (Fixtures per person)	1:1-25 2:26-50 over 50, add 1 fixture per restroom for each additional 50 persons. See Footnote #1	1:1-25 2:26-50	1 per 40 1 per exercise room	1 per 40
Drinking Fountains[4] (Fixtures per person)	-----1 per 75------		------1 per 75------	
Other Fixtures (Fixtures per person)	1 Service Sink per floor		1 Service Sink per floor	

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Day Care Centers (All Ages)	
	Male	Female
Water Closets (Fixtures per person)	1: 1-10 2: 11-25 3: 26-50 4: 51-75 5: 76-100 6:101-125 7:126-150 8:151-175 Over 175: Add a fixture per restroom for each additional 50 males/ females. See Footnote #1	1: 1-10 2: 1-25 3: 26-50 4: 51-75 5: 76-100 6:101-125 7:126-150 8:151-175
Urinals (Fixtures per person)	See Footnote #2	See Footnote #2
Lavatories[3] (Fixtures per person)	1: 1- 10 2: 11- 25 3: 26- 50 4: 51- 75 5: 76-100 6:101-125 7:126-150 8:151-175 Over 175: Add a fixture per restroom for each additional 50 males/ females. See Footnote #1	1: 1- 10 2: 11- 25 3: 26- 50 4: 51- 75 5: 76-100 6:101-125 7:126-150 8:151-175
Drinking Fountains[4] (Fixtures per person)	------ 1 per 75 -------	
Other Fixtures	1 Service Sink Per Facility	

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Hospitals	
	Individual Room	Ward Room
Water Closets (Fixtures per person)	1 per room	1 per 8 patients
Urinals (Fixtures per person)	None	None
Lavatories[3] (Fixtures per person)	1 per room	1 per 8 patients
Bathtubs, Showers (Fixtures per person)	1 per room	1 per 8 patients
Drinking Fountains[4] (Fixtures per person)	None	1 per 75
Other Fixtures (Fixtures per person)	1 Service Sink per floor	1 Service Sink per floor

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE B Minimum Number of Plumbing Fixtures (continued)

Type of Building	Institutional-Other than Hospitals or Penal Institutions (on each floor)		Penal Institutions For Prisoner Use Cell or Exercise Room
	Male	Female	
Water Closets (Fixtures per person)	1 per 25	1 per 20	1 per cell 1 per exercise room
Urinals (Fixtures per person)	1 per 50#2	See Footnote #2	1 per exercise room
Lavatories[3] (Fixtures per person)	1 per 10	1 per 10	1 per cell 1 per exercise room
Bathtubs/Showers (Fixtures per person)	1 per 8	1 per 8	none
Drinking Fountains[4] floor (Fixtures per person)	---- 1 per 75 ----		1 per cell block 1 per exercise room
Other Fixtures (Fixtures per person)	1 Service Sink per floor		1 Service Sink per floor

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Instructions/Footnotes For Table B

Questions concerning the minimum numbers of fixtures required for building types not listed in Appendix A, Table B, shall be referred to the Department in writing prior to construction for a decision concerning the minimum numbers (and types) of plumbing fixtures required.

Footnotes:

1. The figures shown are the minimum number of fixtures required for the number of persons indicated or any fraction thereof. Based on the total occupant load determined, the number of fixtures shall be calculated assuming fifty (50) percent of the occupants are male and fifty (50) percent are female. The total male/female occupants shall be calculated first; then the number of fixtures for each (males/females) shall be determined from the appropriate table.

2. Urinals may be substituted for water closets for males, not to exceed one-half (1/2) of the required total number of water closets. Comparable fixtures for females may be substituted for water closets for females, not to exceed one-half (1/2) of the required total number of water closets.

3. 18 lineal inches of wash sink or 18 inches of a circular basin, when provided with water outlets for such space, shall be considered equivalent to one lavatory.

4. Whenever a drinking fountain is required by this code, bottled drinking water or a water dispensing faucet (water station) may be substituted for a drinking fountain, provided it is readily accessible to the public.

5. The kitchen sink and laundry tray or connection for the washer are not required for the hotel/motel unit.

6. Handwashing facilities must be available in the kitchen for employees.

7. When bathtubs/showers are required for employees by OSHA requirements, collective bargaining agreements, etc., they shall be provided at the rate of 1 per 10 employees.

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE C Minimum Air Gaps for Plumbing Fixtures

	Minimum Air Gap (Inches)	
	When Not Affected by Near Wall[1]	When Affected by Near Wall[2]
Lavatories and other fixtures with effective opening not greater than 1/2 inch diameter.	1	1 1/2
Drink water fountains, single orifice not greater than 7/16 (0.437) inch diameter or multiple orifices having total are of 0.150 square inches (are of circle 7/16 inch diameter.	1	1 1/2
Sink, laundry trays, goose neck bath faucets and other fixtures with effective openings not greater than one inch diameter	1 1/2	2 1/4
Stills, sterilizers and other appliances, fixtures, devices and water and waste connections used for preparation of sterile material	2	3
Over rim bath fillers and other fixtures with effective openings not greater than one inch diameter	2	3
Effective openings greater than one inch	2 X Diameter of effective opening	3 X Diameter of effective opening

1 Side walls, ribs or similar obstructions do not affect air gaps when spaced from inside edge of spout opening a distance greater than three times the diameter of the effective opening for a single wall, or a distance greater than four times the diameter of the effective opening for two intersecting walls.

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TABLE C Minimum Air Gaps for Plumbing Fixtures (Continued)

2 Vertical walls, ribs or similar obstructions extending from the water surface to or above the horizontal plane of the spout opening require a greater air gap when spaced closer to the nearest inside edge of spout opening than specified in [1], above. The effect of three or more such vertical walls or ribs has not been determined. In such cases, the air gap shall be measured from the top of the wall.

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TABLE D Minimum Water Distribution Pipe Size

Type of Fixture or Device (See[1] & [2])	Pipe Size (inches)
Bathtubs	1/2
Combination sink and tray	1/2
Drinking fountain	3/8
Dishwasher (domestic)	1/2
Kitchen sink (residential)	1/2
Kitchen sink (commercial)	3/4
Lavatory	3/8
Laundry tray (1,2 or 3 compartment)	1/2
Shower (single head)	1/2
Sinks (service, slop)	1/2
Sinks (flushing rim)	3/4
Urinal (flush tank)	1/2
Urinal (direct flush valve)	3/4
Urinal (siphon jet)	1
Washing machine (automatic)	1/2
Water closet (tank type)	3/8
Water closet (flush valve type)	1
Hose bibbs	1/2
Wall hydrant	1/2

1 For fixtures not listed, the minimum supply branch shall be installed in the diameters required for similar type fixtures.

2 The fixture supply pipe shall be extended to within 12 inches of the point of connection to fixture and be within the same area and physical space as the point of connection to the fixture.

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TABLE E Drainage Fixture Units (D.F.U.) Per Fixture Group

Type of Fixture	D.F.U./ Fixture (Load)	Minimum Size of Trap[2] (inches)
Bathroom group consisting of 1 tank water closet, 1 lavatory with 1 1/4 inch trap and 1 bathtub[1] or shower stall	7	
Water closet with flush valve, lavatory with 1 1/4 inch trap and bathtub[1] or shower	11	
Bathtub[2] (with or without overhead shower)	2	1 1/2
Bathtub[1]	3	2
Bidet	2	1 1/2
Clothes washer, automatic	3	2
Combination sink and tray	3	1 1/2
Combination sink and tray with food-disposal unit	4 Separate Traps	1 1/2
Dental unit or cuspidor	1	1 1/4
Dental lavatory	1	1 1/4
Drinking fountain	1/2	1
Dishwasher[2], domestic	2	1 1/2
Floor drains		2
Kitchen sink, domestic	2	1 1/2
Kitchen sink, domestic, with food-waste grinder	3 Separate Traps	1 1/2
Lavatory	1	1 1/4
Lavatory	2	1 1/2
Lavatory, barber, beauty parlor	2	1 1/2
Lavatory, surgeon's	2	1 1/2

Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

TABLE E Drainage Fixture Units (D.F.U.) Per Fixture Group (continued)

Type of Fixture	D.F.U./ Fixture (Load)	Minimum Size of Trap[2] (inches)
Laundry tray (1 or 2 compartments)	2	1 1/2
Shower stall	3	2
Showers (group) per head[2]	3	
Sinks:		
Surgeon's	3	1 1/2
Flushing rim (with valve)	8	3
Service (P trap)	3	3
Service (P trap)	2	2
Pot, scullery, etc.[2]	4	1 1/2
Urinal, Pedestal, siphon jet, blowout	8	2
Urinal, wall integral trap	4	2
Urinal, wall P-trap, exposed	4	1 1/2
Urinal stall	4	2
Wash sink[2] (circular of multiple) each set of faucets	2	1 1/2
Water closet:		
Tank operated	4	3
Valve-operated	8	3

1 A shower head over a bathtub does not increase the fixture value.
2 See Exhibit G: Table E and Section 890.1330(c) for method of determining unit values of fixtures not listed in this Table or for rating of devices with intermittent flows.

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TABLE F Fixtures Not Listed in Table E

Fixture Drain or Trap Size	Drainage Fixture Unit Value (D.F.U.)
1 1/4 inches and smaller	1
1 1/2 inches	2
2 inches	3
2 1/2 inches	4
3 inches	5
4 inches	6

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TABLE G Building Drains

Diameter of Pipe (inches)	Maximum Number of Drainage Fixture Units (D.F.U.) That May be Connected to Any Portion of the Building Drain			
	Grade per Foot			
	1/16 Inch	1/8 Inch	1/4 Inch	1/2 Inch
2	--	--	21	26
2 1/2	--	--	24	31
3	--	--	27	36
4	--	180	216	250
5	--	390	480	575
6	--	700	840	1,000
8	1,400	1,600	1,920	2,300
10	2,500	2,900	3,500	4,200
12	3,900	4,600	5,600	6,700
15	7,000	8,300	10,000	12,000

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TABLE H Horizontal Fixture Branches and Stacks

Diameter of Pipe (inches)	Maximum Number of Drainage Fixtures Units (D.F.U.) That May be Connected to:			
	Any Horizontal Fixture Branch	One Stack of 3 Stories in Height or 3 Intervals	More than 3 Stories in Height	
			Total for Stack	Total at One Story or Branch Interval
1 1/4	1	2	2	1
1 1/2	3	4	8	2
2	6	10	24	6
2 1/2	12	20	42	9
3	20[1]	30[2]	60[2]	16[1]
4	100	240	500	90
5	360	540	1,100	200
6	620	960	1,900	350
8	1,400	2,200	3,600	600
10	2,500	3,800	5,600	1,500
12	3,900	6,000	8,400	1,500
15	7,000	--	--	--

[1] Not over two water closets.
[2] Not over six water closets, or more than two per branch interval or per floor.

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TABLE I Distance from Fixture Trap to Vent

Size of Fixture Drain (Inches)	Distance from Trap to Vent
1 1/4	2 ft. 6 in.
1 1/2	3 ft. 6 in.
2	4 ft. 0 in.
3	5 ft. 0 in.
4 and larger	6 ft. 0 in.

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TABLE J Size of Vent Stacks

Number of Bathroom Groups	Diameter of Vent Stacks (Inches)
1 or 2	2
3 to 9	3
10 to 16	4

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TABLE K Size and Length of Vents

Size of Soil or Waste Stack	Fixture Units Connected	Diameter of Vent Required (Inches)								
		1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
		Maximum Length of Vent (Feet)								
1 1/4	2	30								
1 1/2	8	50	150							
1 1/2	10	30	100							
2	12	30	75	200						
2	20	26	50	150						
2 1/2	42		30	100	300					
3	10		30	100	200	600				
3	30			60	200	500				
3	60			50	60	400				
4	100			35	100	260	1,000			
4	200			30	90	250	900			
4	500			20	70	180	700			
5	200				35	80	350	1,000		
5	500				30	70	300	900		
5	1,100				20	50	200	700		
6	350				25	50	200	400	1,300	
6	620				15	30	125	300	1,100	
6	960					24	100	250	1,000	
6	1,900					20	70	200	700	
8	600						50	150	500	1,300
8	1,400						40	100	400	1,200
8	2,200						30	80	350	1,100
9	3,600						25	60	250	800
10	1,000							75	125	1,000
10	2,500							50	100	500
10	3,800							30	80	350
10	5,600							25	60	250

Agency Note: Per Section 890.1580(e), vent piping serving floor drains shall be installed in such a manner as to minimize horizontal vent distances. No more than 20 percent of the maximum developed length may be installed in the horizontal position.

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TABLE L Horizontal Circuit and Loop Vent Sizing Table

Line	Soil or waste pipe diam. (in.)	Fixture Units (max. number)	Diameter of circuit or loop vent (in.)					
			1 1/2	2	2 1/2	3	4	5
			Maximum Horizontal Length (ft.)					
1	1 1/2	10	20					
2	2	12	15	40				
3	2	20	10	30				
4	3	10		20	40	100		
5	3	30			40	100		
6	3	60			16	80		
7	4	100		7	20	52	200	
8	4	200		6	18	50	180	
9	4	500			14	36	140	
10	5	200				16	70	200
11	5	1,100				10	40	140

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Table M Load Values Assigned to Fixtures

Load Values Assigned to Fixtures

Fixture	Occupancy	Type of Supply Control	Load Values in Water (Supply Fixture Units) Cold	Hot	Total
Water Closet	Public	Flush Valve	10	-	10
Water Closet	Public	Flush Tank	5	-	5
Urinal	Public	1" Flush Valve	10	-	10
Urinal	Public	3/4" Flush Valve	5	-	5
Urinal	Public	Flush Tank	3	-	3
Lavatory	Public	Faucet	1.5	1.5	2
Bathtub	Public	Faucet	3	3	4
Shower Head	Public	Mixing Valve	3	3	4
Service Sink	Offices, etc.	Faucet	2.25	2.25	3
Kitchen Sink	Hotel/Restaur.	Faucet	3	3	4
Drinking Fountain	Office, etc.	3/8" Valve	0.25	-	0.25
Water Closet	Private	Flush Valve	6	-	6
Water Closet	Private	Flush Tank	3	-	3
Lavatory	Private	Faucet	0.75	0.75	1
Bathtub	Private	Faucet	1.5	1.5	2
Shower Stall	Private	Mixing Valve	1.5	1.5	2
Kitchen Sink	Private	Faucet	1.5	1.5	2
Laundry Trays (1 to 3)	Private	Faucet	2.25	2.25	3
Combination Fixture	Private	Faucet	2.25	2.25	3
Dishwashing Machine	Private	Automatic	-	1	1
Laundry Machine (8 lb)	Private	Automatic	1.5	1.5	2
Laundry Machine (8 lb)	Public/General	Automatic	2.25	2.25	3
Laundry Machine (16 lb)	Public/General	Automatic	3	3	4
Sill Cock	Public/General	Faucet	5	-	5

Note: For fixtures not listed, loads shall be assumed by comparing the fixtures to one listed using water in similar quantities and at similar rates. The assigned loads for fixtures with both cold and hot water supplies are given for separate cold and hot water loads and for total load.

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Table N Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flush Tanks

Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flush Tanks

W.S.F.U.	Demand (GPM)	Pipe Size (Inches)	Pressure Loss (PSI/100' of Pipe)	Velocity (Ft./Sec.)	Meter Size (Inches)
2	2	1/2"	4.2	2.7	5/8"
4	3	1/2"	8.7	4.2	5/8"
6	5	1/2"	22.5	7.0	5/8"
8	6.5	3/4"	6.3	4.3	5/8"
10	8	3/4"	9.0	5.4	3/4"
12	9.2	3/4"	11.5	6.1	3/4"
14	10.4	3/4"	15.0	6.9	3/4"
16	11.6	3/4"	18.0	7.7	3/4"
20	14	1"	7.2	5.6	3/4"
25	17	1"	10.0	6.6	3/4"
30	20	1"	13.6	8.0	1"
35	22.5	1 1/4"	5.8	5.7	1"
40	25	1 1/4"	7.0	6.3	1"
45	27	1 1/4"	8.2	6.9	1"
50	29	1 1/4"	9.5	7.4	1"
60	32	1 1/2"	5.0	5.8	1 1/2"
70	35	1 1/2"	6.2	6.4	1 1/2"
80	38	1 1/2"	7.0	7.2	1 1/2"
90	41	1 1/2"	8.0	7.5	1 1/2"
100	43.5	1 1/2"	8.7	7.8	2"
120	48	2"	2.7	5.0	2"
140	52.5	2"	3.1	5.4	2"
160	57	2"	3.6	5.8	2"
180	61	2"	3.9	6.1	2"
200	65	2"	4.5	6.6	2"
225	70	2"	5.2	7.1	2"
250	75	2"	6.0	7.7	3"
275	80	2 1/2"	2.6	5.5	3"
300	85	2 1/2"	2.9	5.8	3"
350	95	2 1/2"	3.5	6.5	3"
400	105	2 1/2"	4.2	7.1	3"
450	115	2 1/2"	5.0	8.0	3"
500	125	3"	2.3	5.9	3"
600	145	3"	3.1	6.8	4"

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Table N Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flush Tanks (Continued)

Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flush Tanks

W.S.F.U.	Demand (GPM)	Pipe Size (Inches)	Pressure Loss (PSI/100' of Pipe)	Velocity (Ft./Sec.)	Meter Size (Inches)
750	170	3"	4.0	8.0	4"
1000	208	4"	1.5	5.7	4"
1250	240	4"	1.9	6.4	4"
1500	267	4"	2.3	7.0	4"
1750	294	4"	2.8	7.8	4"
2000	320	6"	0.36	3.7	6"

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Table O Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flushometer

Water Supply Fixture Units (W.S.F.U.) for a Supply System with Flushometer

W.S.F.U.	Demand (GPM)	Pipe Size (Inches)	Pressure Loss (PSI/100' of Pipe)	Velocity (Ft./Sec.)	Meter Size (Inches)
10	27	1 1/4	8.3	6.8	3/4
12	28.6	1 1/4	9.2	7.2	3/4
14	30.2	1 1/4	10	7.9	3/4
16	31.8	1 1/4	11	8.0	3/4
20	35	1 1/2	6.0	6.4	3/4
25	38	1 1/2	7.0	6.9	1
30	41	1 1/2	8.0	7.4	1
35	43.8	1 1/2	8.8	8.0	1
40	46.5	2	2.5	4.7	1
45	49	2	2.7	5.1	1
50	51.5	2	2.9	5.4	1 1/2
60	55	2	3.4	5.8	1 1/2
70	58.5	2	3.7	6.0	1 1/2
80	62	2	4.0	6.2	1 1/2
90	64.8	2	4.6	6.5	1 1/2
100	67.5	2	5.0	6.8	1 1/2
120	72.5	2	5.6	7.2	2
140	77.5	2	6.3	8.0	2
160	82.5	2 1/2	2.7	5.7	2
180	87	2 1/2	3	6.1	2
200	91.5	2 1/2	3.4	6.4	2
225	97	2 1/2	3.7	6.8	2
250	101	2 1/2	4.0	7.1	3
275	106	2 1/2	4.2	7.3	3
300	110	2 1/2	4.6	7.6	3
350	119	3	2.1	5.5	3
400	126	3	2.3	5.9	3
450	138	3	2.7	6.3	3
500	145	3	3.0	6.8	3
600	160	3	3.6	7.4	4
750	178	4	1.1	4.7	4
1000	208	4	1.5	5.6	4
1250	240	4	1.9	6.4	4
1500	267	4	2.3	7.0	4
1750	294	4	2.8	7.8	4
2000	321	6	0.4	3.7	6

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

Table P Demand at Individual Water Outlets

Demand at Individual Water Outlets

Type of Outlet	Demand (g.p.m.)
Ordinary Lavatory Faucet	2.0
Self Closing Lavatory Faucet	2.5
Sink Faucet, 3/8" or 1/2"	4.5
Sink Faucet, 3/4"	6.0
Bath Faucet, 1/2"	5.0
Shower Head, 1/2"	5.0
Laundry Faucet, 1/2"	5.0
Ballcock in Water Closet Flush Tank	3.0
1" Flush Valve (25 psi flow pressure)	35.0
1" Flush Valve (15 psi flow pressure)	27.0
3/4" Flush Valve (15 psi flow pressure)	15.0
Drinking Fountain Jet	0.75
Dishwashing Machine (domestic)	4.0
Laundry Machine (8 to 16 pounds)	4.0
Aspirator (operating room or laboratory)	2.5
Hose Bibb or Sill Cock	5.0

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Section 890.Appendix A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards

Table Q Allowance in Equivalent Length of Pipe for Friction Loss in Valves and Fittings

Allowance in Equivalent Length of Pipe
for Friction Loss in Valves and Fittings

The following applies to all types of material approved for potable water distribution:

Valve or Fitting	Equivalent Feet of Pipe for Various Pipes Sizes							
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
45° ell (wrought)	0.5	0.5	1.0	1.0	2.0	2.0	3.0	4.0
90° ell (wrought)	0.5	1.0	1.0	2.0	2.0	2.0	2.0	3.0
Tee, Run (wrought)	0.5	0.5	0.5	0.5	1.0	1.0	2.0	-
Tee, Branch (wrought)	1.0	2.0	3.0	4.0	5.0	7.0	9.0	-
45° ell (cast)	0.5	1.0	2.0	2.0	3.0	5.0	8.0	11.0
90° ell (cast)	1.0	2.0	4.0	5.0	8.0	11.0	14.0	18.0
Tee, Run (cast)	0.5	0.5	0.5	1.5	1.0	2.0	2.0	2.0
Tee, Branch (cast)	2.0	3.0	5.0	7.0	9.0	12.0	16.0	20.0
Compression Stop	13.0	21.0	30.0	-	-	-	-	-
Globe Valve	-	-	-	53.0	66.0	90.0	-	-
Gate Valve	-	-	1.0	1.0	2.0	2.0	2.0	2.0

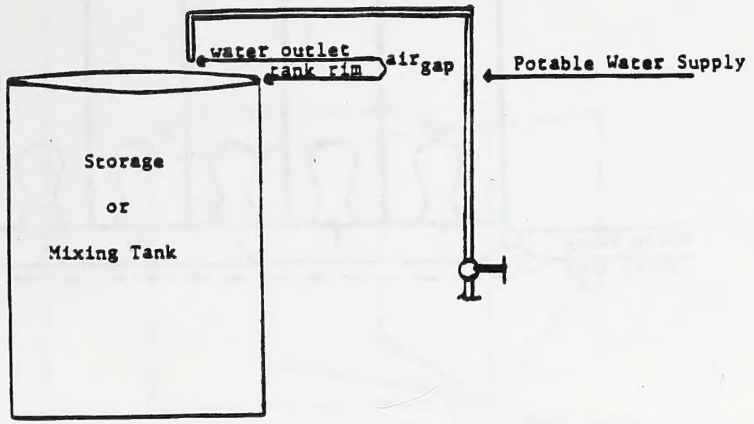
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION A Air Gap Drawing #1

(Referenced in Section 890.120, Definition of "Air Gap.")



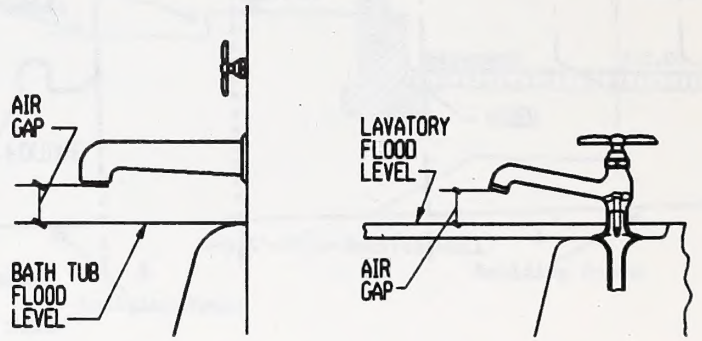
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION B Air Gap Drawing #2

(Referenced in Section 890.120, Definition of "Air Gap.")



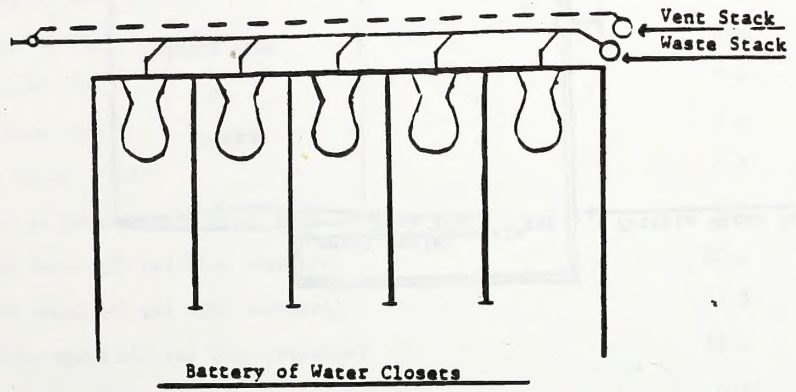
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION C Battery of Fixtures

(Referenced in Section 890.120, Definition of "Battery of Fixtures.")



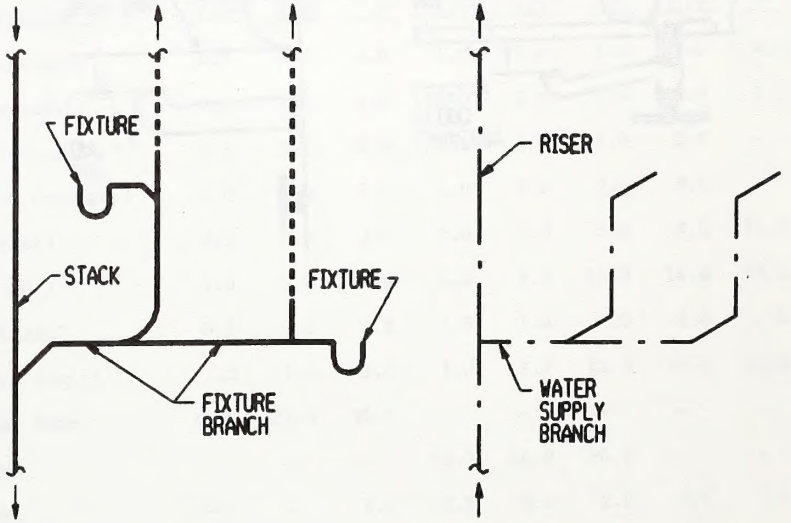
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION D Branch

(Referenced in Section 890.120, Definition of "Branch.")



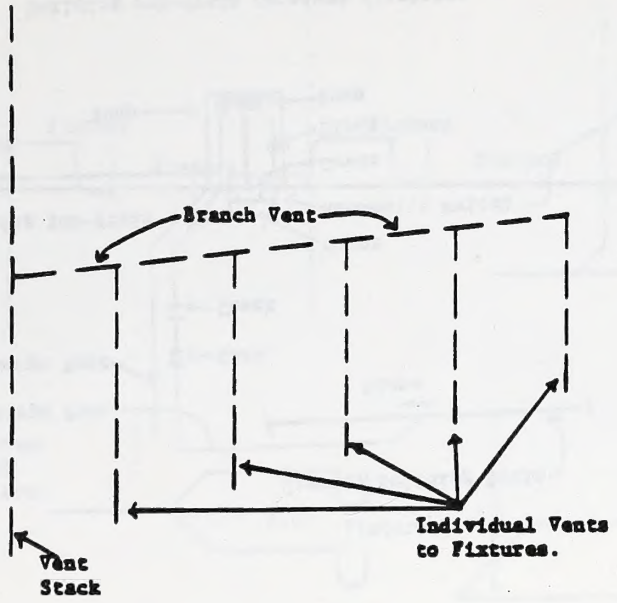
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION E Branch Vent

(Referenced in Section 890.120, Definition of "Branch Vent.")



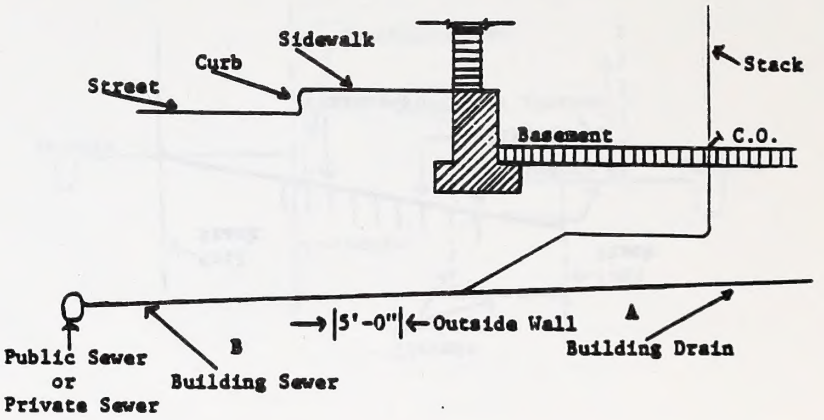
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION F Building Drain

(Referenced in Section 890.120, Definition of "Building Drain.")



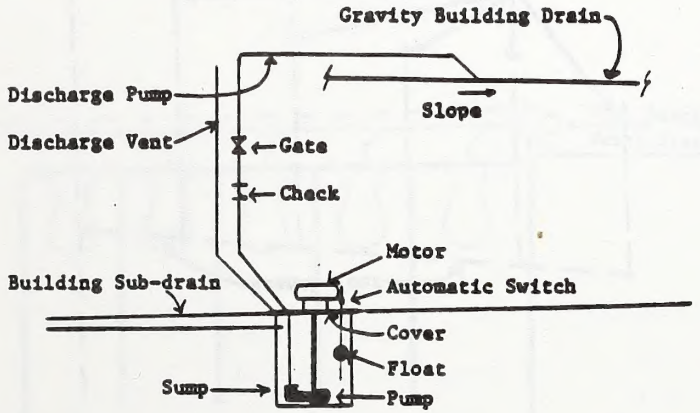
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION G Building Sub-Drain

(Referenced in Section 890.120, Definition of "Building Sub-Drain.")



Building sub-drain receives discharge from fixtures located below sewer.

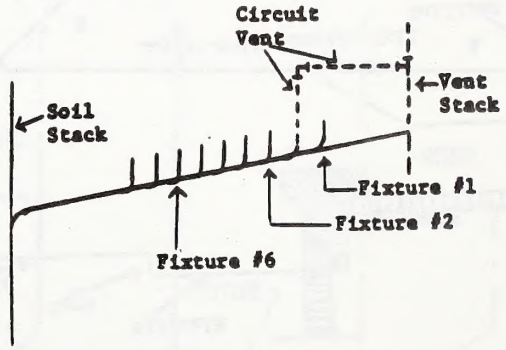
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION H Circuit Vent

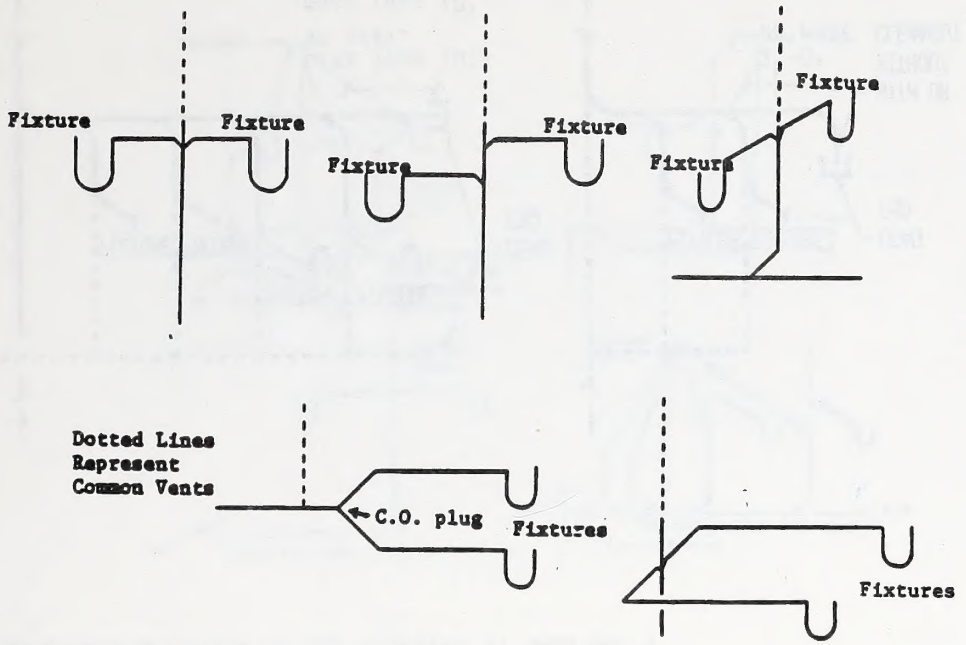
(Referenced in Section 890.120, Definition of "Circuit Vent.")



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ILLUSTRATION I Common Vent

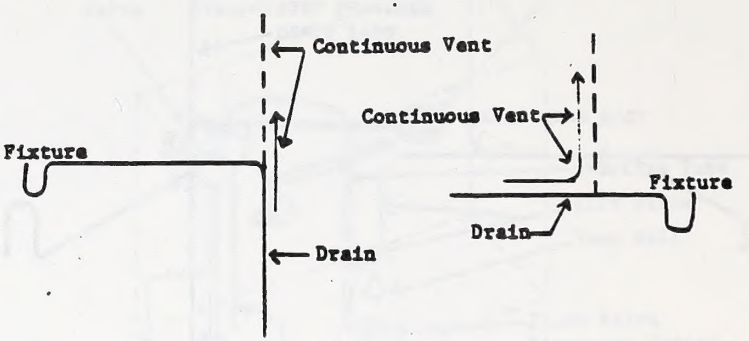
(Referenced in Section 890.120, Definition of "Common Vent.")



Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION J Continuous Vent

(Referenced in Section 890.120, Definition of "Continuous Vent.")



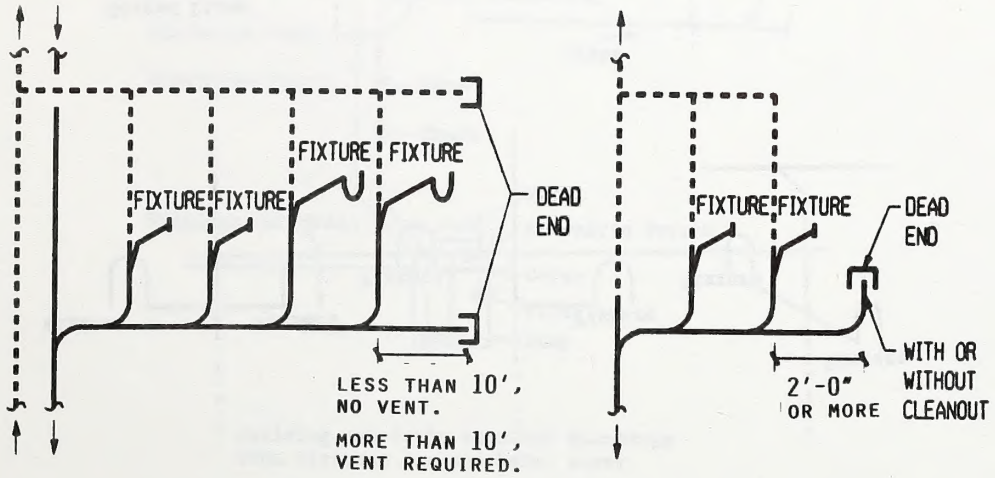
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION K Dead End

(Referenced in Section 890.120, Definition of "Dead End.")



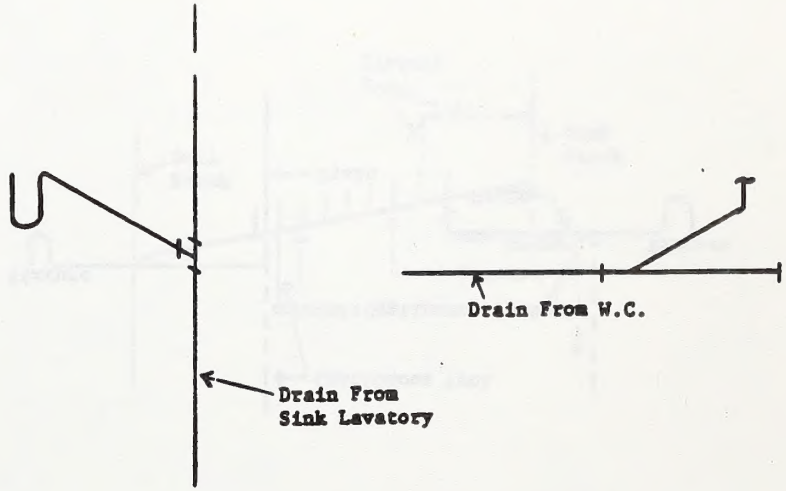
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION L Drain

(Referenced in Section 890.120, Definition of "Drain.")



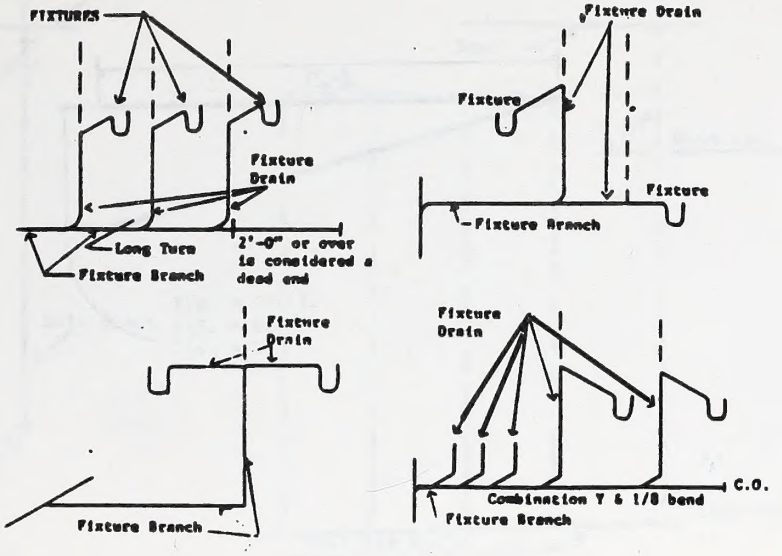
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION M Fixture Drain

(Referenced in Section 890.120, Definition of "Fixture Drain.")



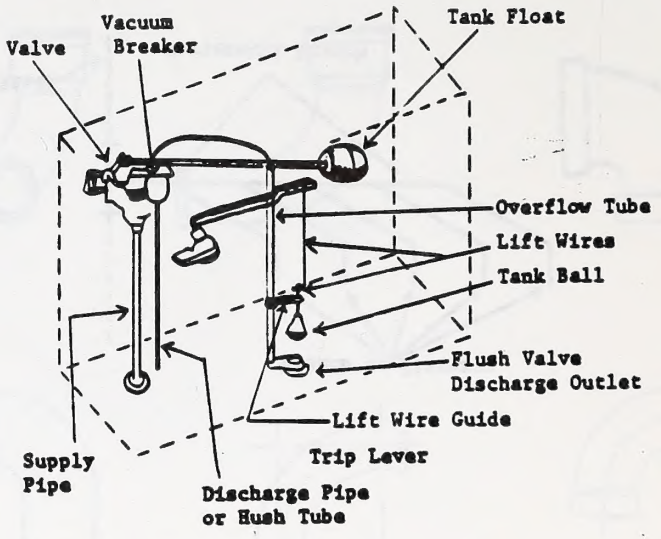
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION N Flush Valve

(Referenced in Section 890.120, Definition of "Flush Valve.")



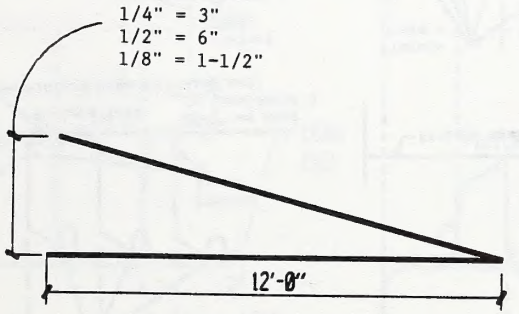
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION O Grade

(Referenced in Section 890.120, Definition of "Grade.")



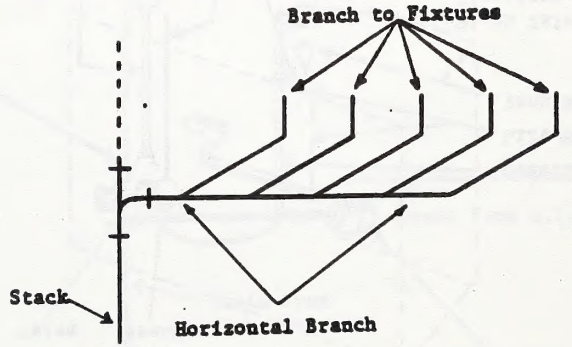
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION P Horizontal Branch

(Referenced in Section 890.120, Definition of "Horizontal Branch.")



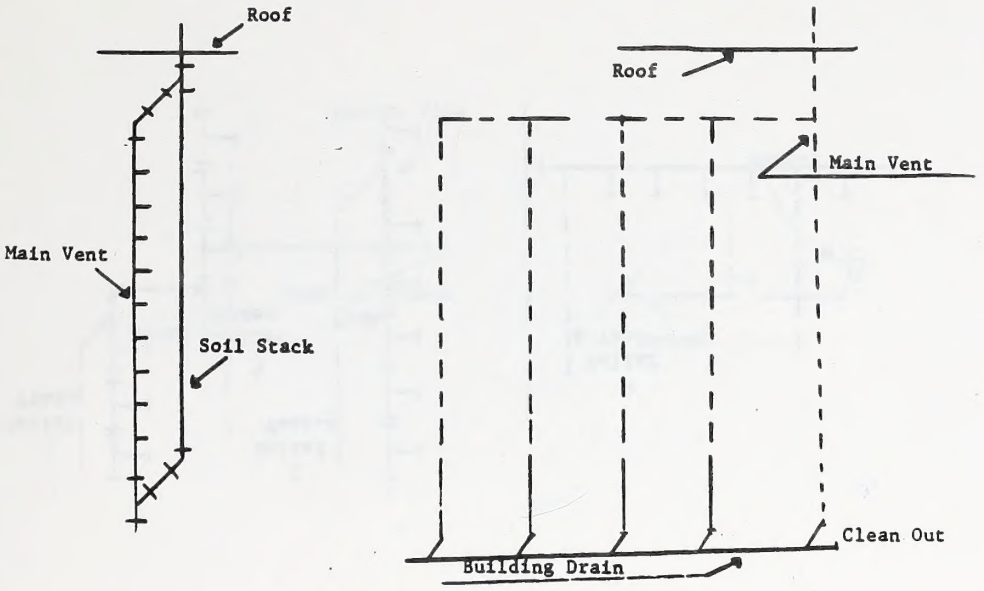
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION Q Main Vent

(Referenced in Section 890.120, Definition of "Main Vent.")



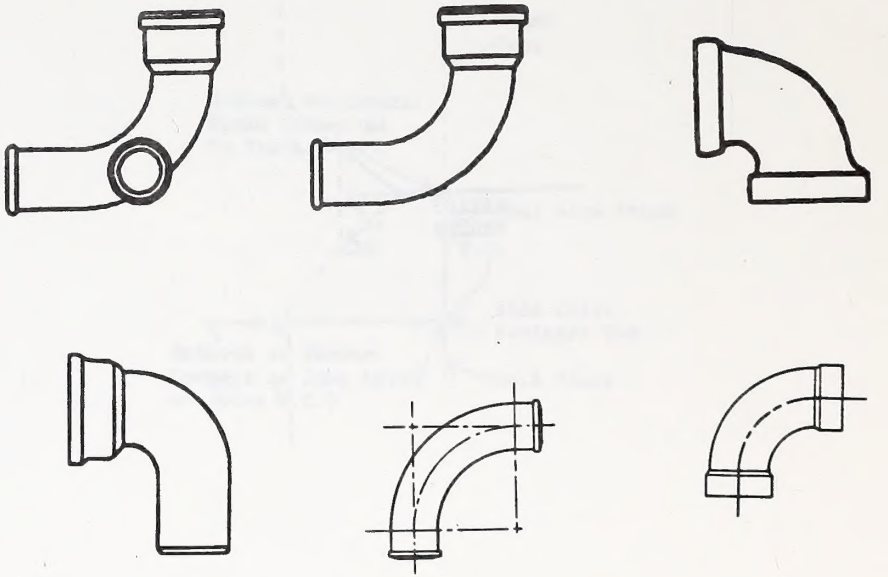
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION R Quarter Bend

(Referenced in Section 890 120, Definition of "Quarter Bend.")



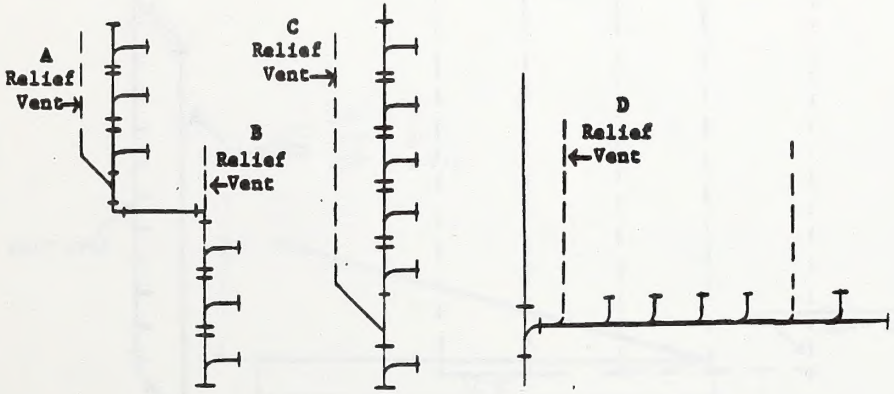
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION S Relief Vent

(Referenced in Section 890.120, Definition of "Relief Vent.")



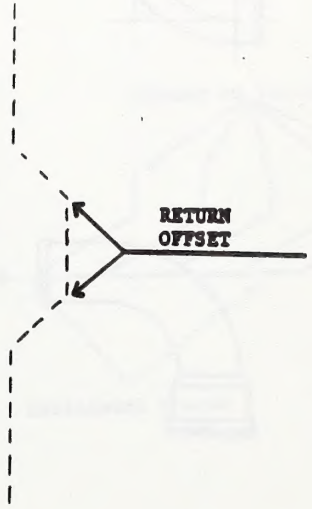
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION T Return Offset

(Referenced in Section 890.120, Definition of "Return Offset.")



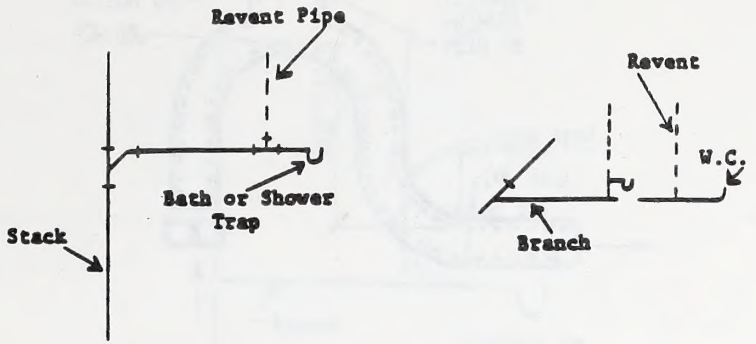
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION U Revent Pipe

(Referenced in Section 890.120, Definition of "Revent Pipe.")



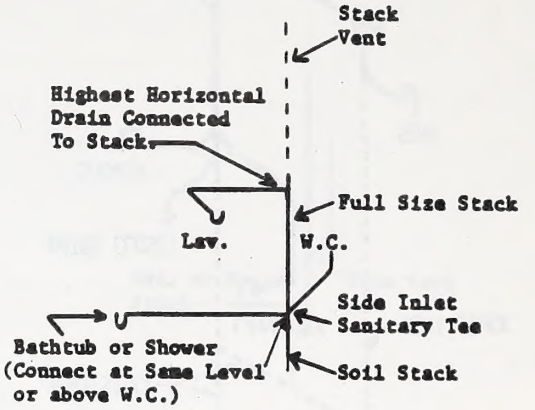
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION V Stack Vent

(Referenced in Section 890.120, Definition of "Stack Vent.")



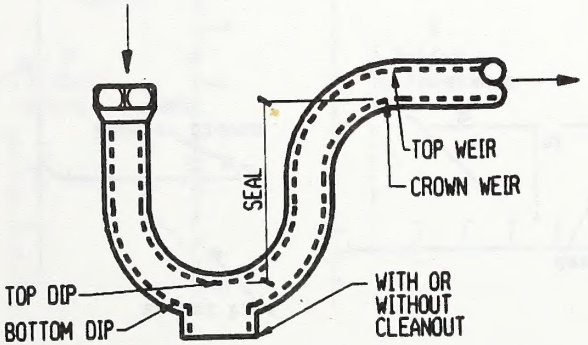
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION W Trap

(Referenced in Section 890.120, Definition of "Trap.")
(Referenced in Section 890.120, Definition of "Trap Seal.")



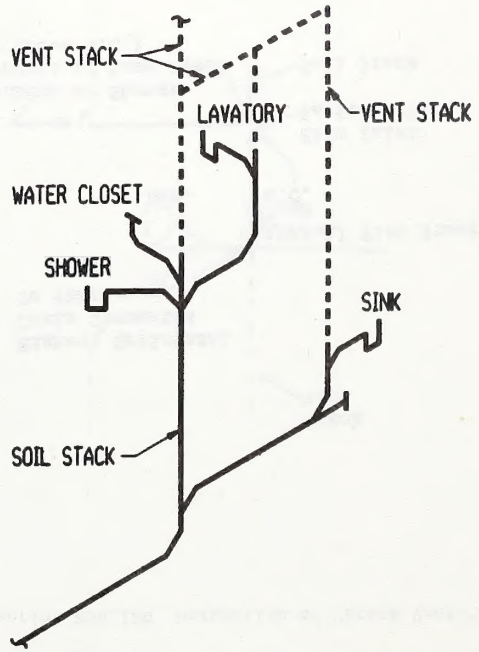
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION X Vent Stack

(Referenced in Section 890.120, Definition of "Vent Stack.")



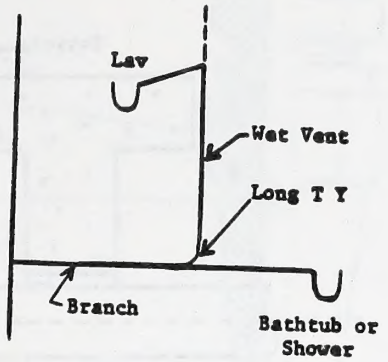
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION Y Wet Vent

(Referenced in Section 890.120, Definition of "Wet Vent.")



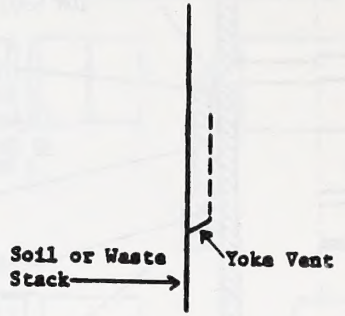
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION Z Yoke Vent

(Referenced in Section 890.120, Definition of "Yoke Vent.")



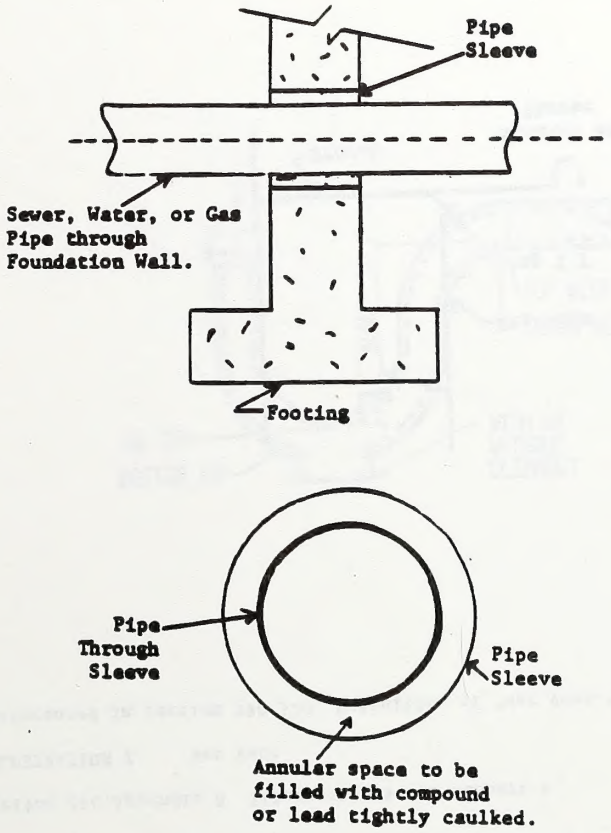
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Section 890.Appendix B Illustrations for Subpart A

ILLUSTRATION AA Sleeves

(Referenced in Section 890.180(c) & (d))



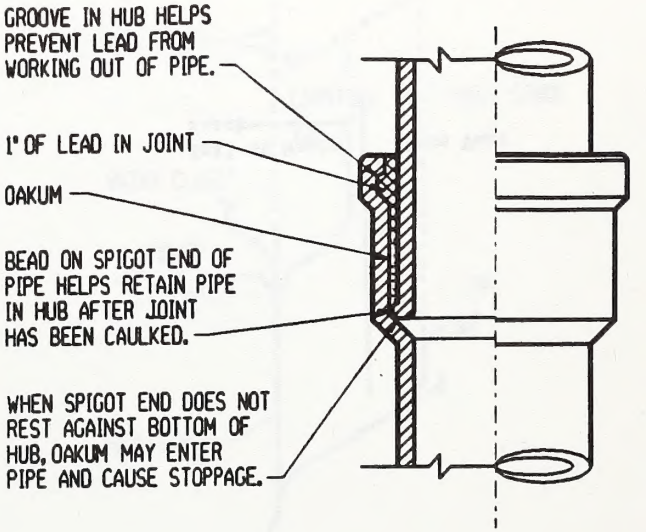
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Section 890.Appendix C Illustrations for Subpart C

ILLUSTRATION A Caulked Joints

(Referenced in Section 890.320(a))



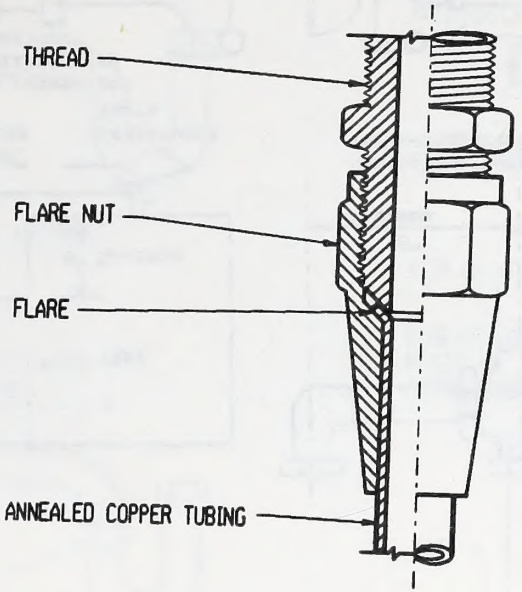
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Section 890.Appendix C Illustrations for Subpart C

ILLUSTRATION B Flared Joints

(Referenced in Section 890.320(e))



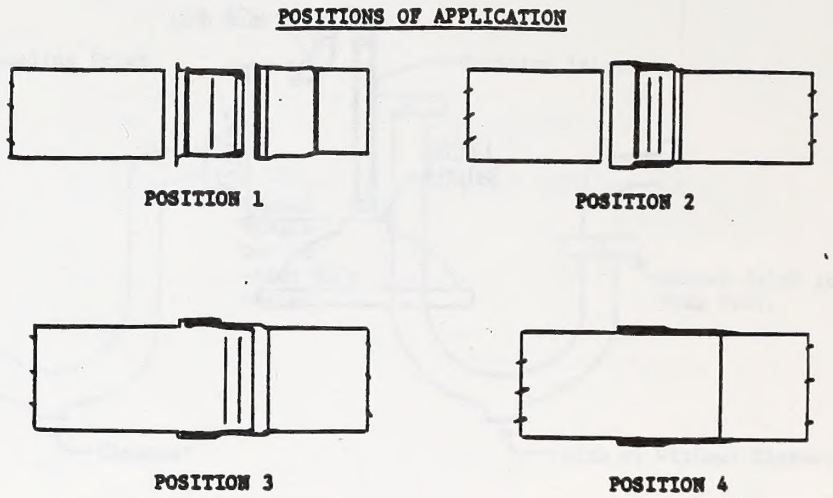
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Section 890.Appendix C Illustrations for Subpart C

ILLUSTRATION C Positions of Application for Compression Type Joints

(Referenced in Section 890.320(p)(1))



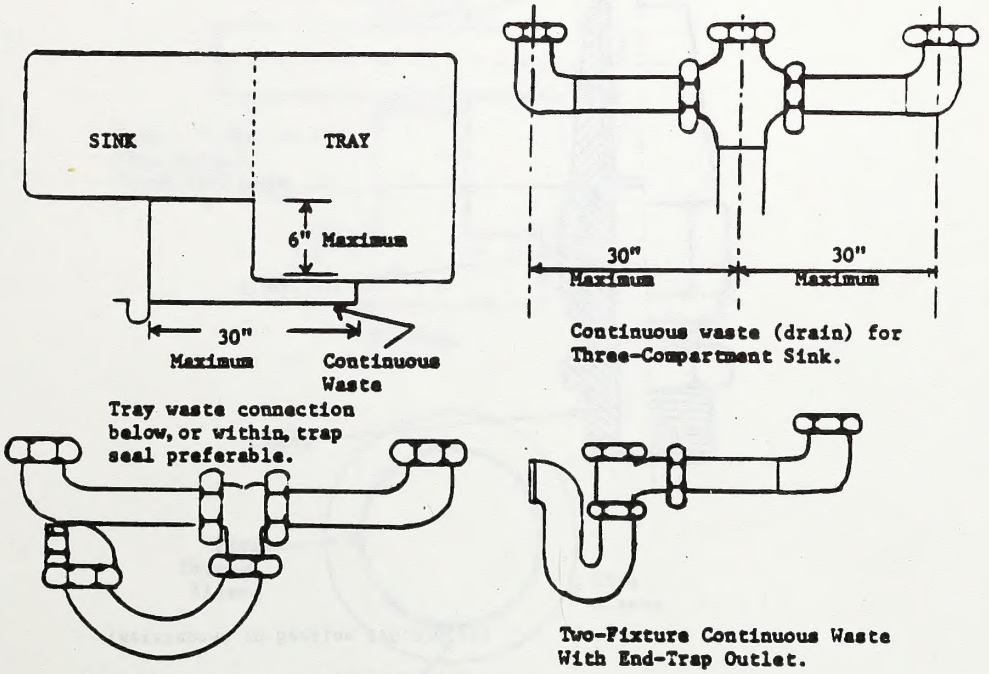
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Section 890.Appendix D Illustrations for Subpart D

ILLUSTRATION A Fixture Traps

(Referenced in Section 890.410(a)(1))



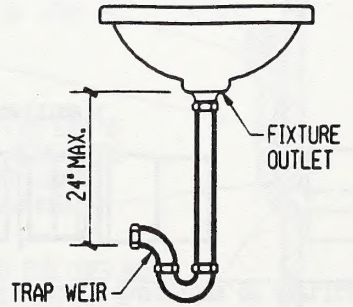
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Section 890.Appendix D Illustrations for Subpart D

ILLUSTRATION B Distance of Trap to Fixture

(Referenced in Section 890.410(b))



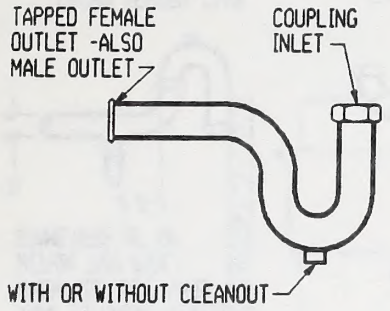
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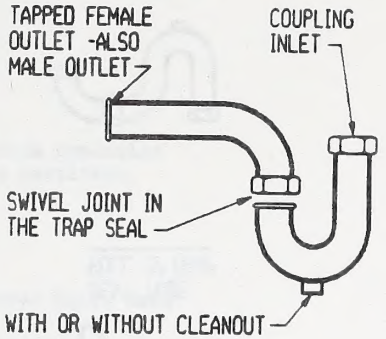
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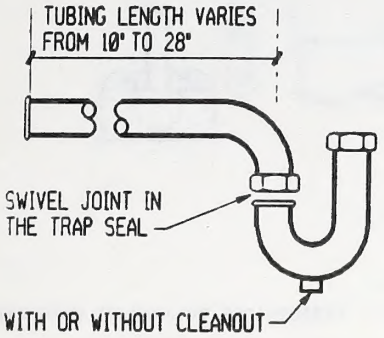
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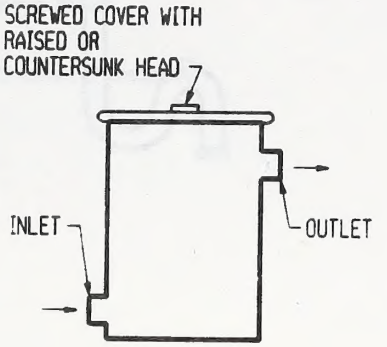
ILLUSTRATION C Types of Traps

(Referenced in Section 890.410(d))









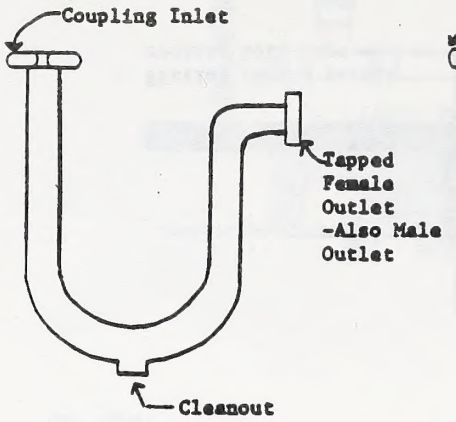
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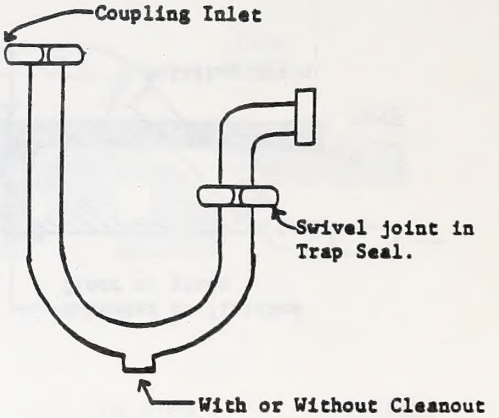
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Section 890.Appendix D Illustrations for Subpart D

ILLUSTRATION D Trap Cleanouts

(Referenced in Section 890.410(g))





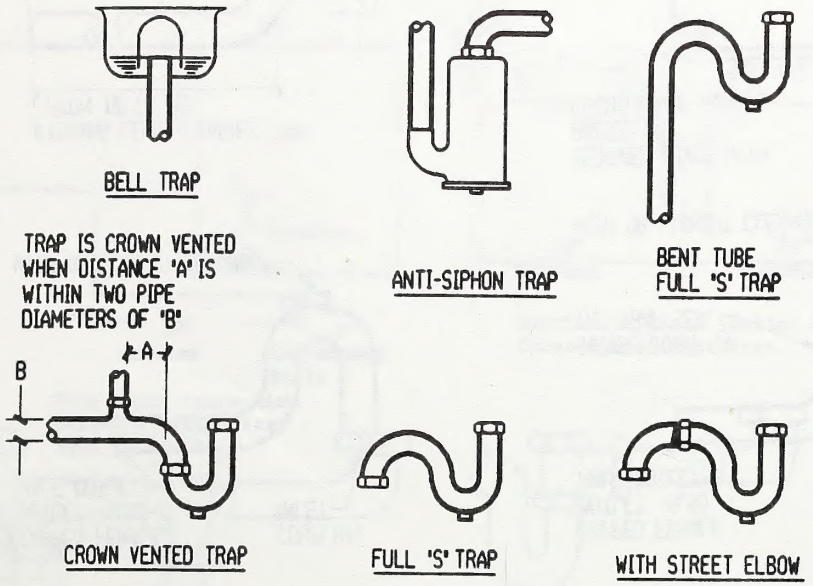
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NOTICE OF PROPOSED RULES

Section 890.Appendix D Illustrations for Subpart D

ILLUSTRATION E Prohibited Traps

(Referenced in Section 890.410(k))



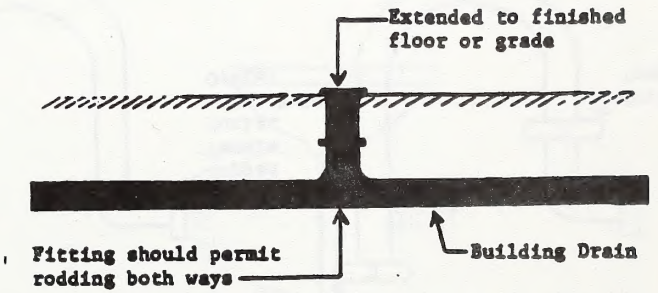
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NOTICE OF PROPOSED RULES

Section 890.Appendix D Illustrations for Subpart D

ILLUSTRATION F Underground Drainage

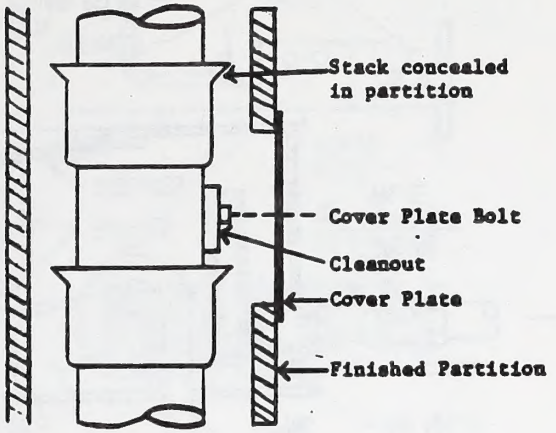
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Section 890.Appendix D Illustrations for Subpart D

ILLUSTRATION G Concealed Piping

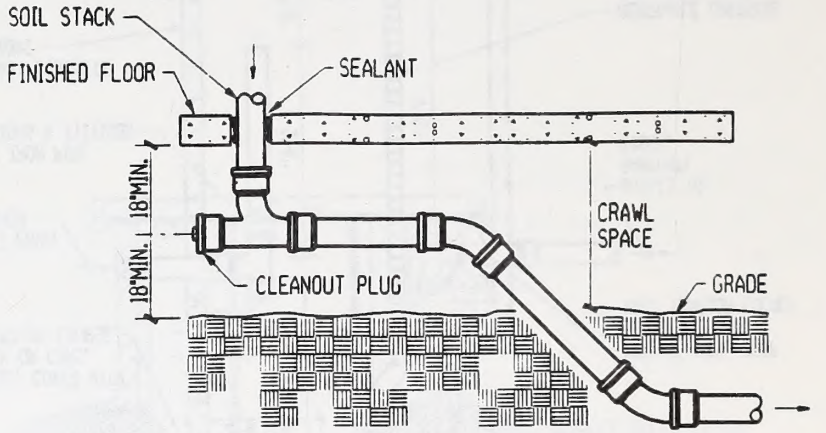
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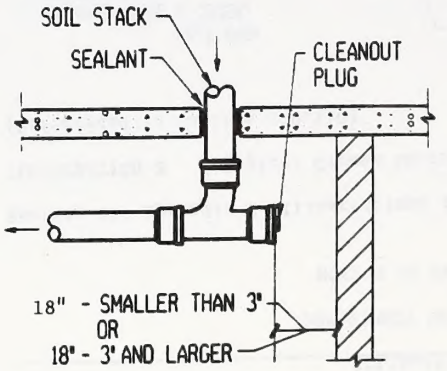


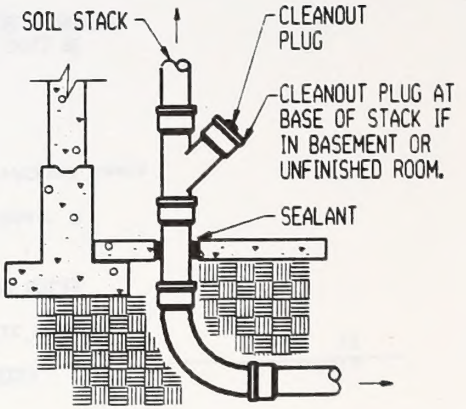
Section 890.Appendix D Illustrations for Subpart D

ILLUSTRATION H Cleanout Clearance

(Referenced in Section 890.420(j))







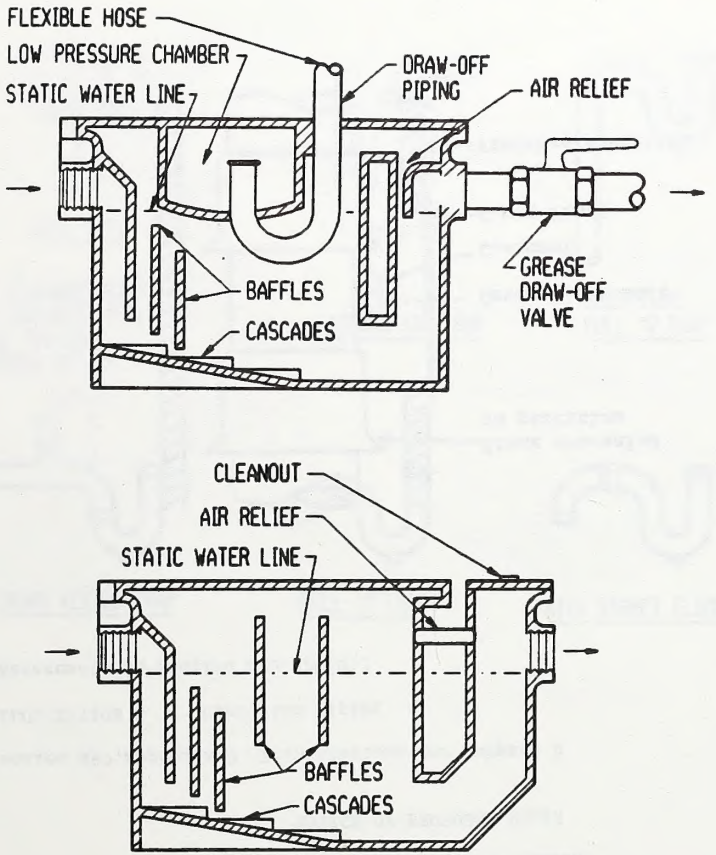
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NOTICE OF PROPOSED RULES

Section 890.Appendix E Illustrations for Subpart E

ILLUSTRATION A Grease Interceptor

(Referenced in Section 890.510)



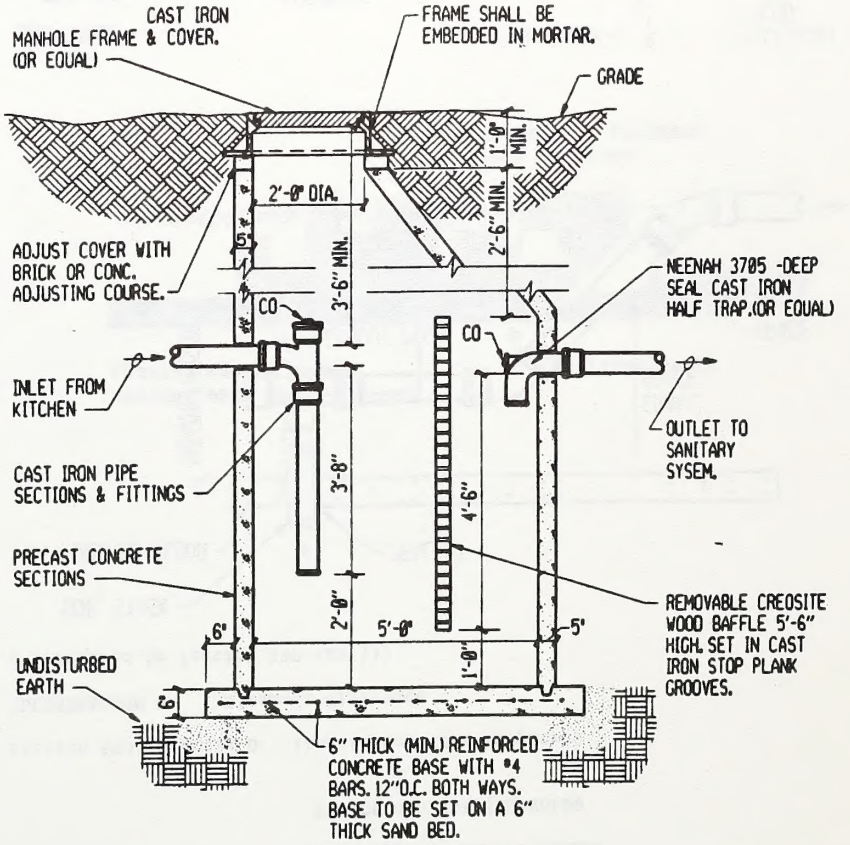
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NOTICE OF PROPOSED RULES

Section 890.Appendix E Illustrations for Subpart E

ILLUSTRATION B Typical Grease Interceptor/Catch Basin

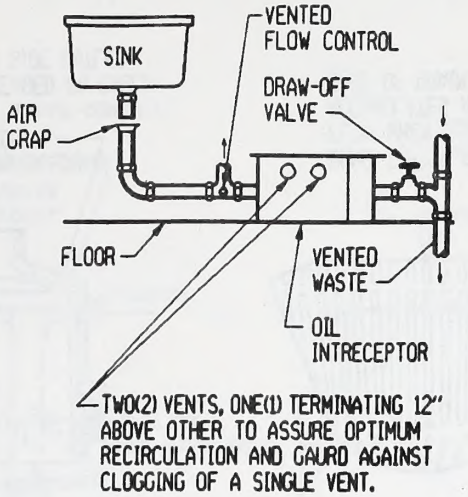
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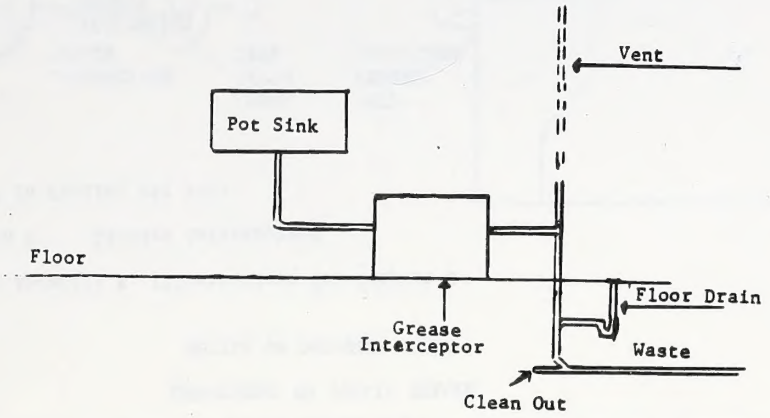


Section 890.Appendix E Illustrations for Subpart E

ILLUSTRATION C Interceptor/Separator Vents

(Referenced in Section 890.510(a)(6))

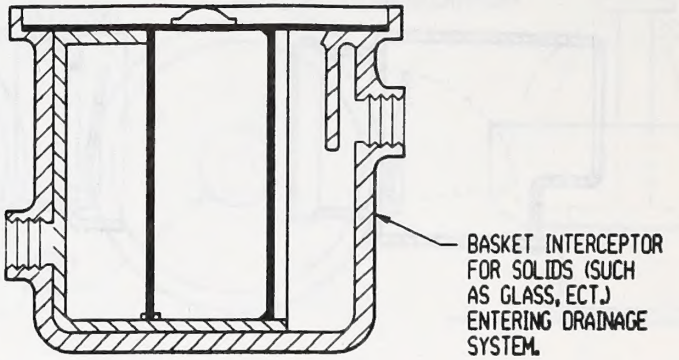




Section 890.Appendix E Illustrations for Subpart E

ILLUSTRATION D Interceptors for Bottling Plants

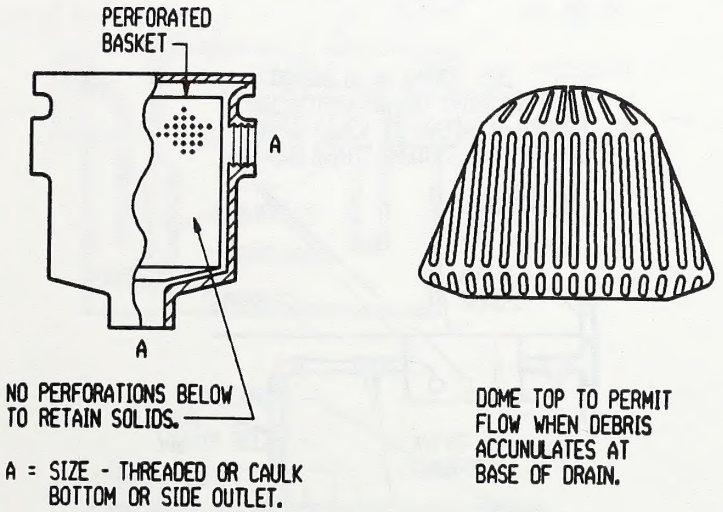
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Section 890.Appendix E Illustrations for Subpart E

ILLUSTRATION E Laundry Interceptors

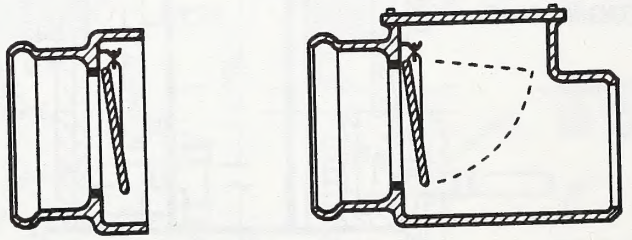
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Section 890.Appendix E Illustrations for Subpart E

ILLUSTRATION F Backwater Valve Location

(Referenced in Section 890.550(c))



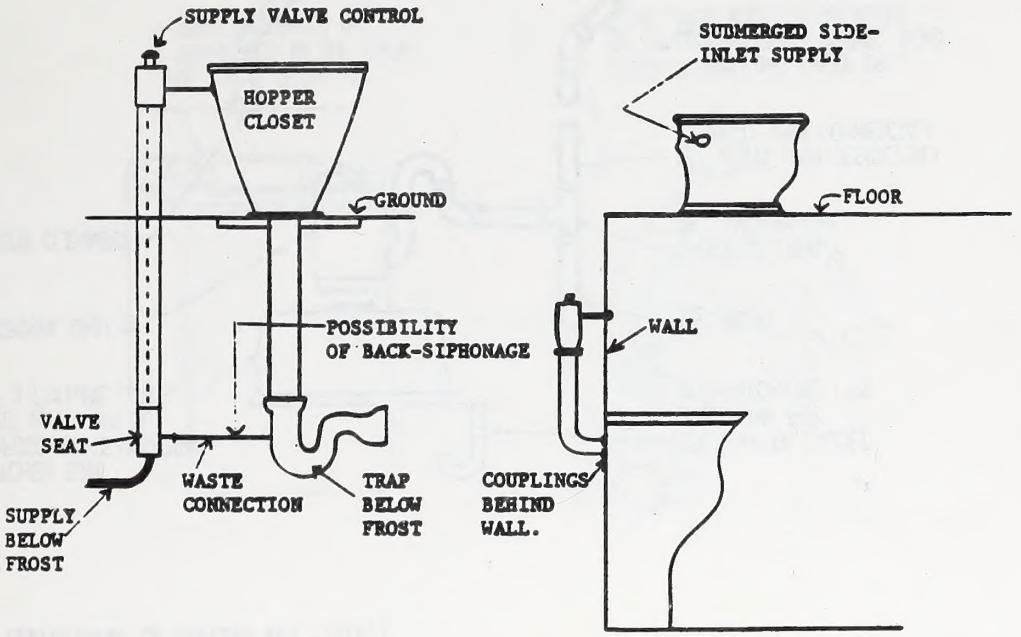
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NOTICE OF PROPOSED RULES

Section 890.Appendix F Illustrations for Subpart F

ILLUSTRATION A Prohibited Fixtures

(Referenced in Section 890.640)



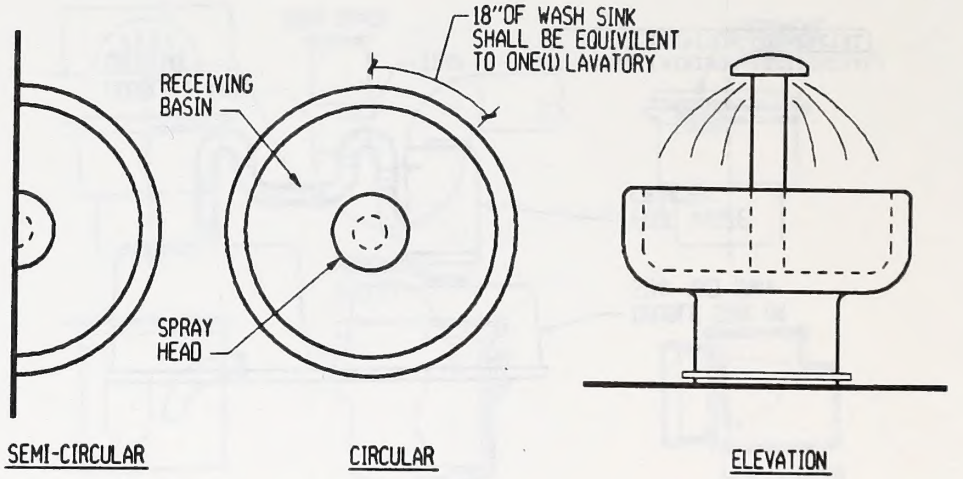
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NOTICE OF PROPOSED RULES

Section 890.Appendix F Illustrations for Subpart F

ILLUSTRATION B Circular Wash Sinks

(Referenced in Section 890.680(d))



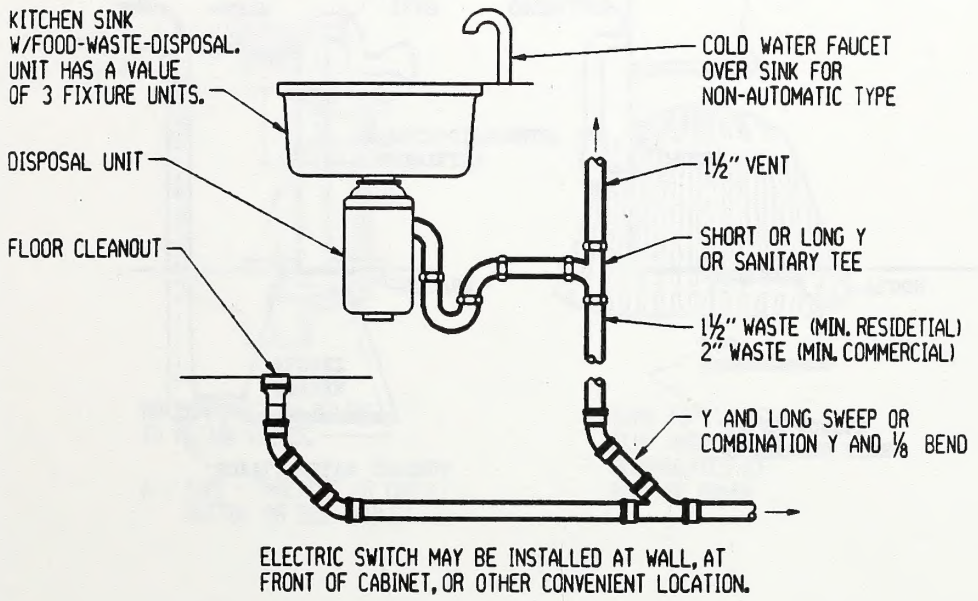
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix F Illustrations for Subpart F

ILLUSTRATION C Commercial-Type Grinder #1

(Referenced in Section 890.710(b))



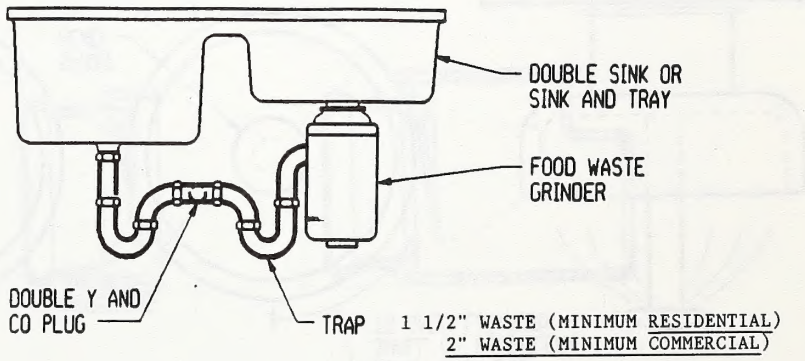
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix F Illustrations for Subpart F

ILLUSTRATION D Commercial-Type Grinder #2

(Referenced in Section 890.710(b))



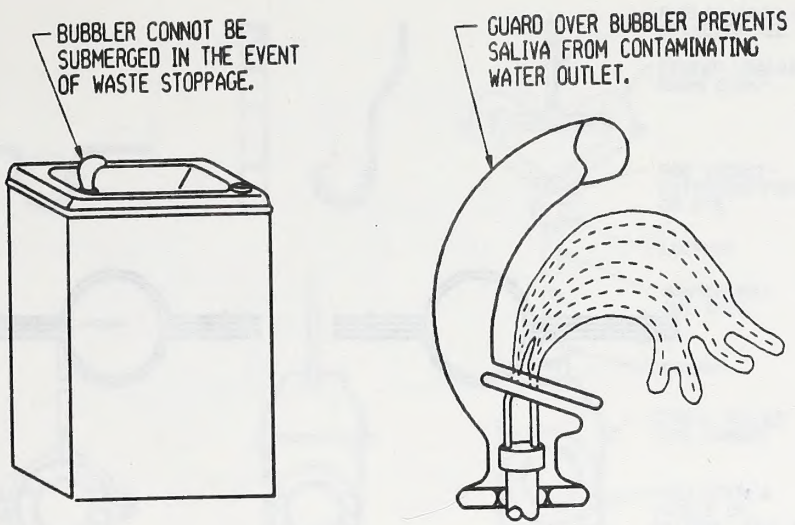
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix F Illustrations for Subpart F

ILLUSTRATION E Protective Guard

(Referenced in Section 890.720(a) & (b))



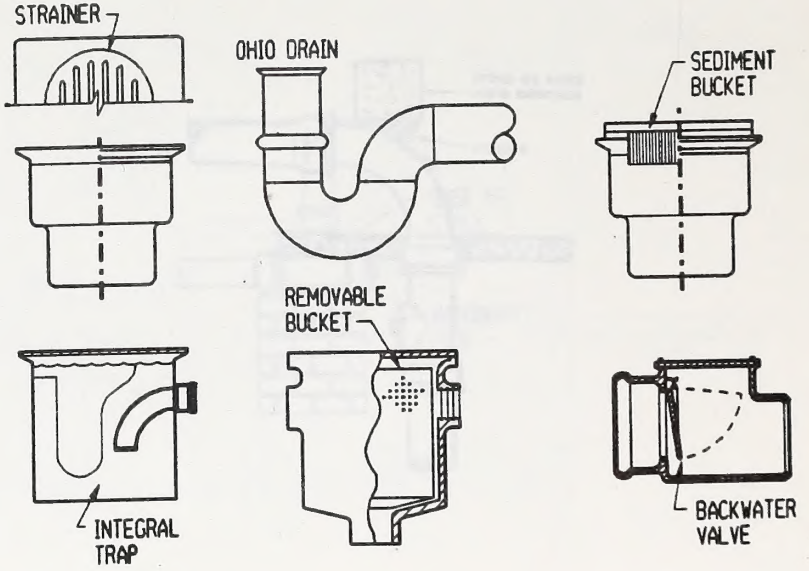
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Section 890.Appendix F Illustrations for Subpart F

ILLUSTRATION F Trap and Strainer

(Referenced in Section 890.730)



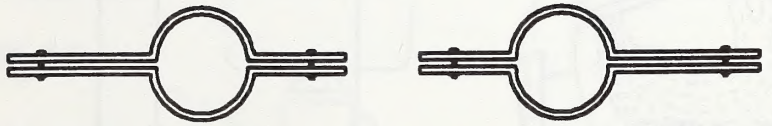
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NOTICE OF PROPOSED RULES

Section 890.Appendix G Illustrations for Subpart G

ILLUSTRATION A Cast Iron Soil Pipe Support #1

(Referenced in Section 890.920)



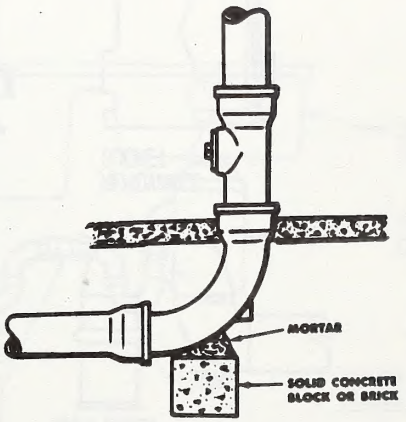
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix G Illustrations for Subpart G

ILLUSTRATION B Cast Iron Soil Pipe Support #2

(Referenced in Section 890.920)



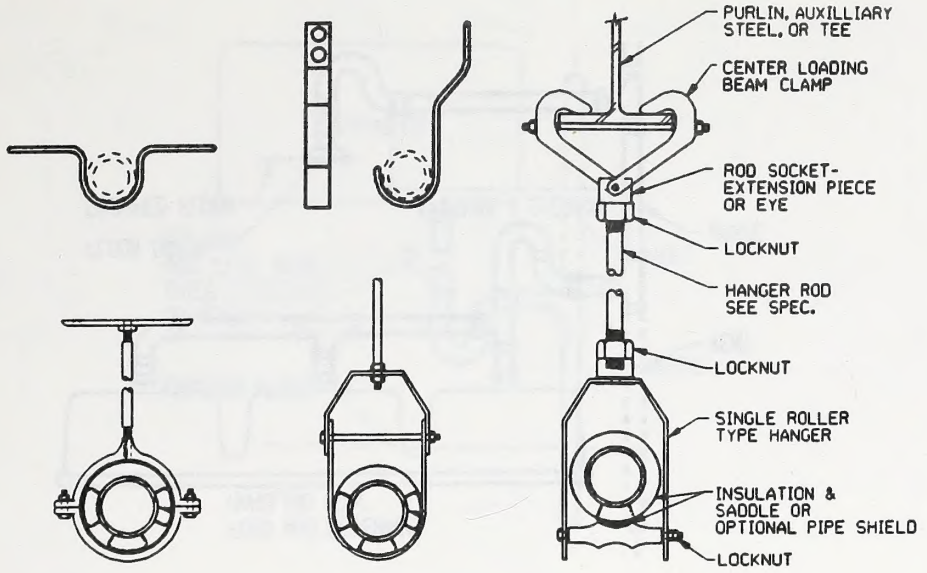
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix G Illustrations for Subpart G

ILLUSTRATION C Horizontal Piping Support

(Referenced in Section 890.930(a))



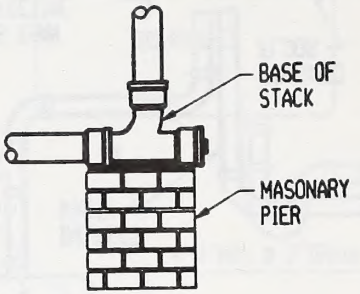
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix G Illustrations for Subpart G

ILLUSTRATION D Cast Iron Soil Stack Support

(Referenced in Section 890.930(b))



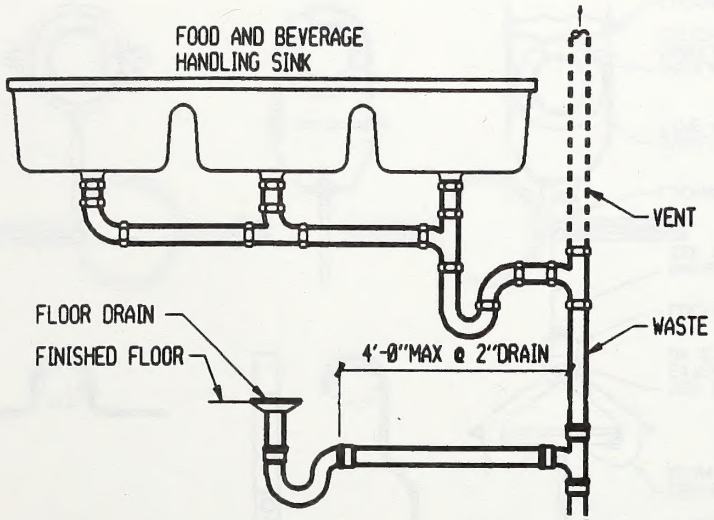
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix H Illustrations for Subpart H

ILLUSTRATION A Indirect Waste Piping #1

(Referenced in Section 890.1010(a))



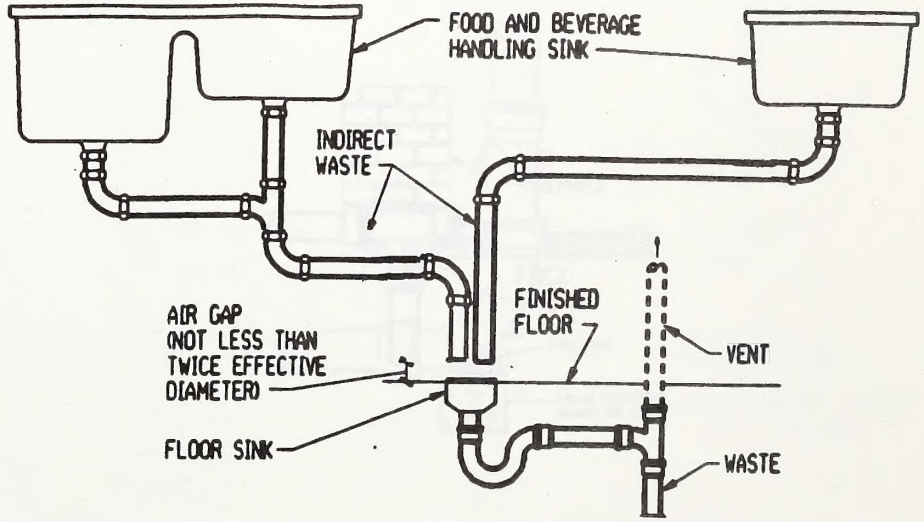
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix H Illustrations for Subpart H

ILLUSTRATION B Indirect Waste Piping #2

(Referenced in Section 890.1010(a))



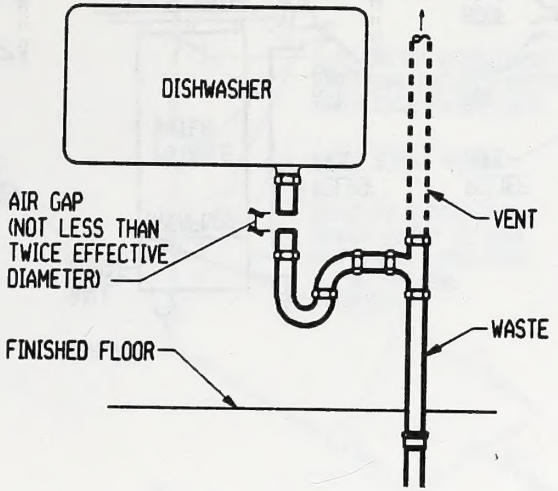
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix H Illustrations for Subpart H

ILLUSTRATION C Indirect Waste Piping #3

(Referenced in Section 890.1010(a))



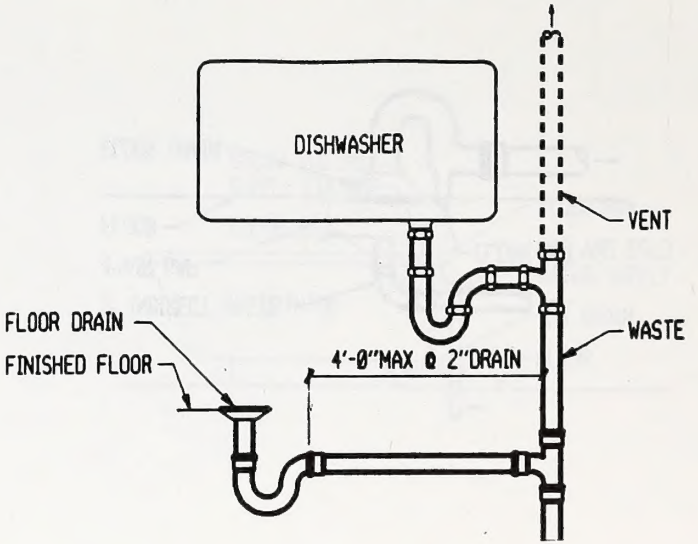
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix H Illustrations for Subpart H

ILLUSTRATION D Indirect Waste Piping #4

(Referenced in Section 890.1010(a))



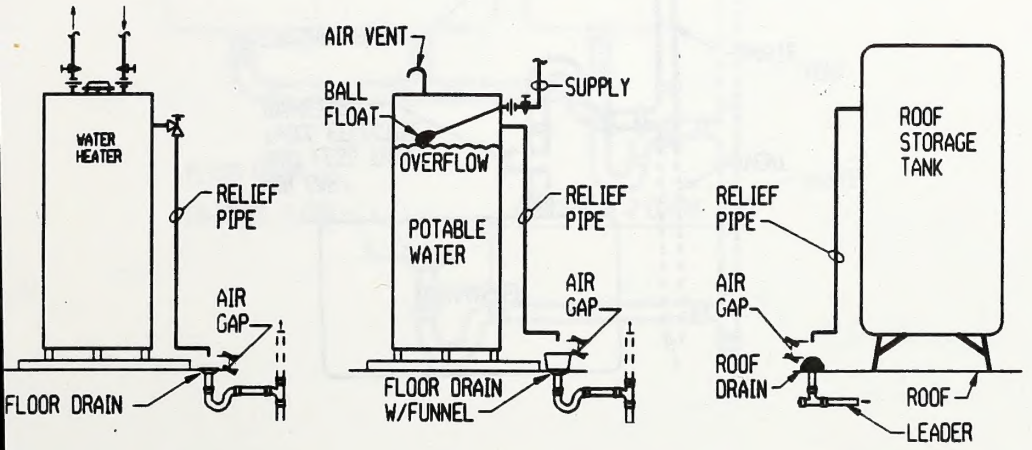
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix H Illustrations for Subpart H

ILLUSTRATION E Indirect Waste Connection

(Referenced in Section 890.1010(b))



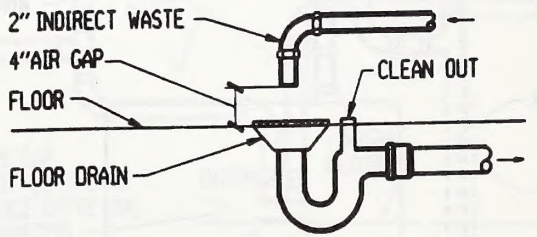
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix H Illustrations for Subpart H

ILLUSTRATION F Air Gaps

(Referenced in Section 890.1040)



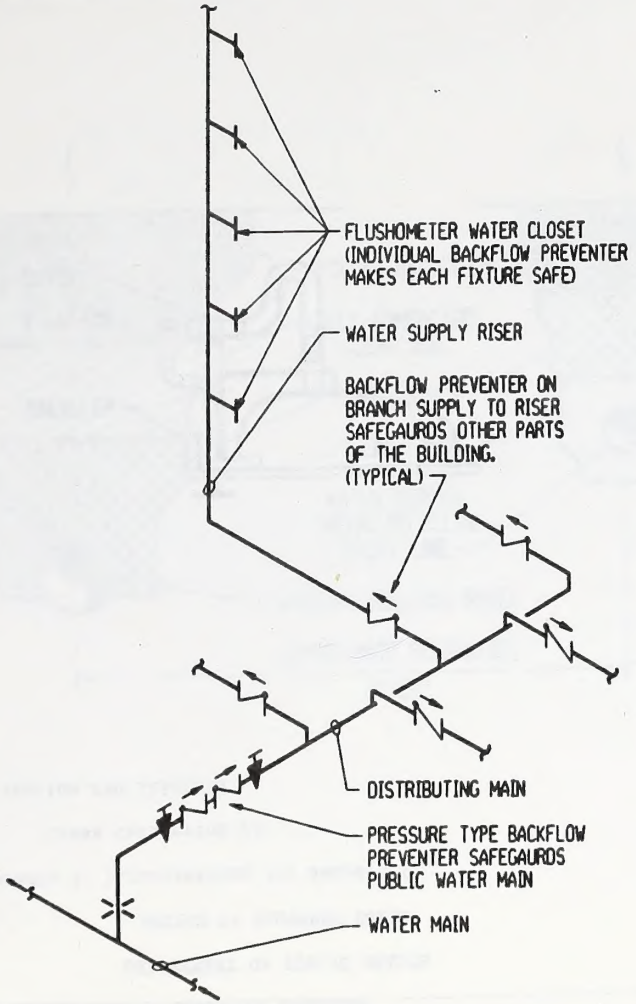
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION A Cross Connection #1

(Referenced in Section 890.1130(a))



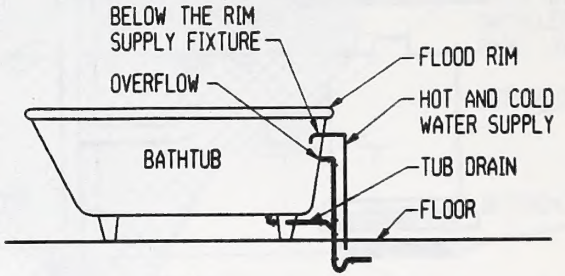
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION B Cross Connection #2

(Referenced in Section 890.1130(a))



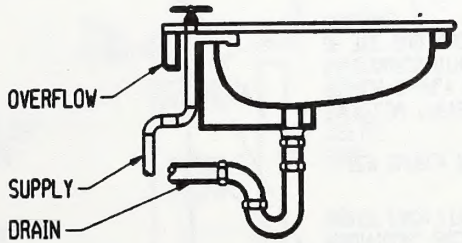
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION C Cross Connection #3

(Referenced in Section 890.1130(a))



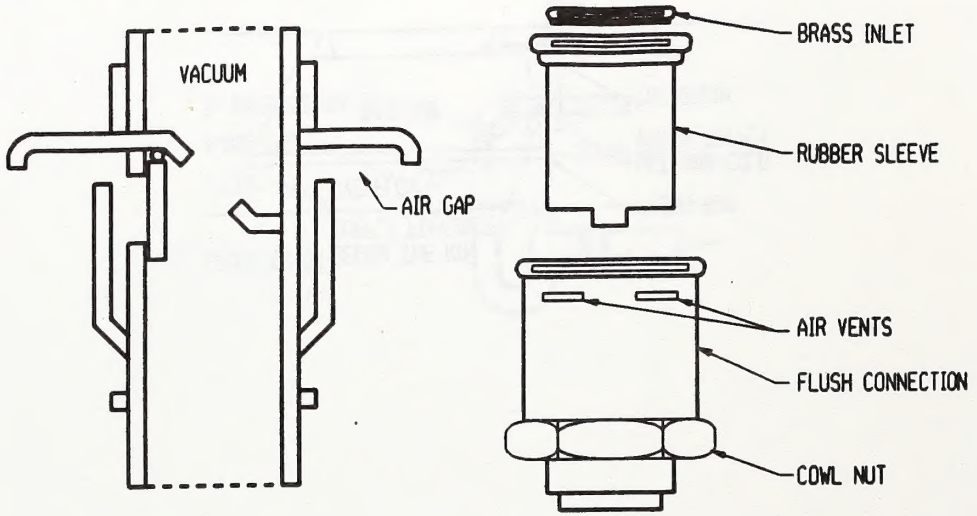
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION D Flushometer Valve

(Referenced in Section 890.1140(b))



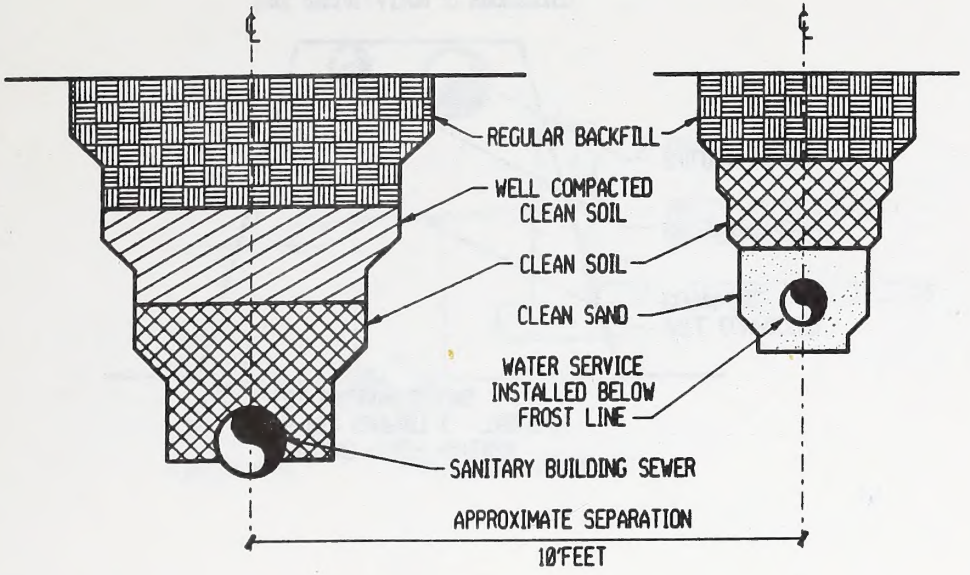
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION E Underground Water Piping #1

(Referenced in Section 890.1150(a)(1))



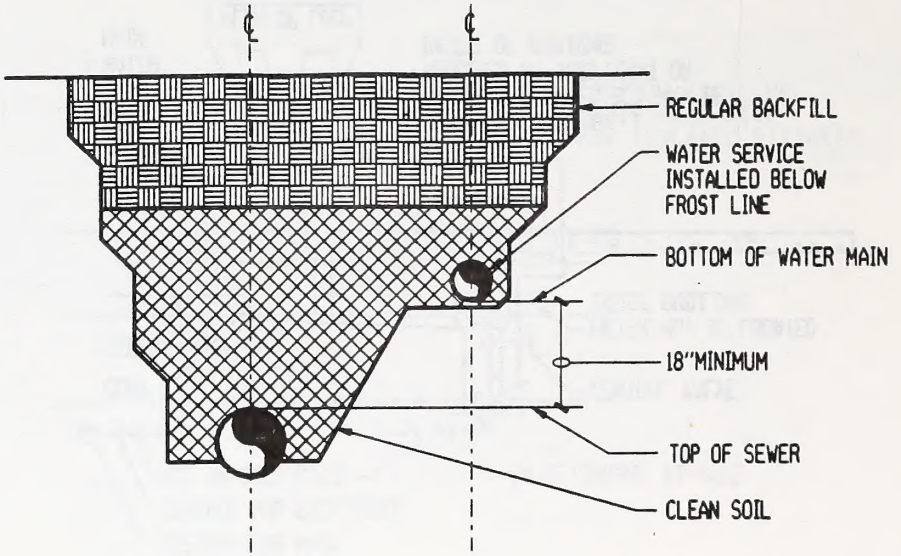
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Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION F Underground Water Piping #2

(Referenced in Section 890.1150(a)(2))



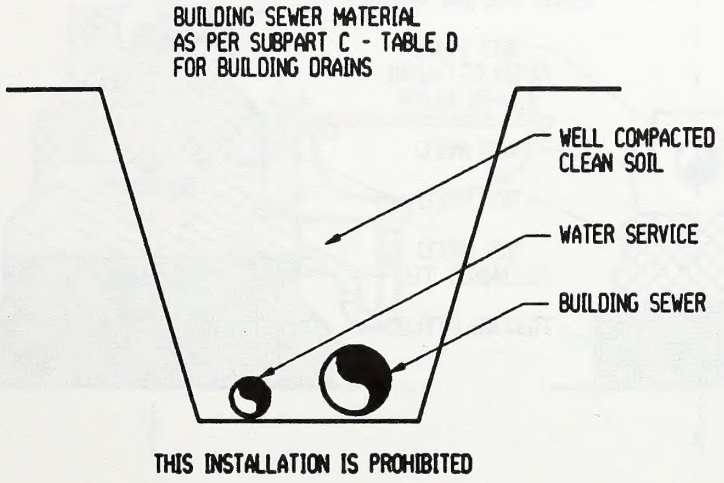
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION G Underground Water Piping #3

(Referenced in Section 890.1150(b)(2))



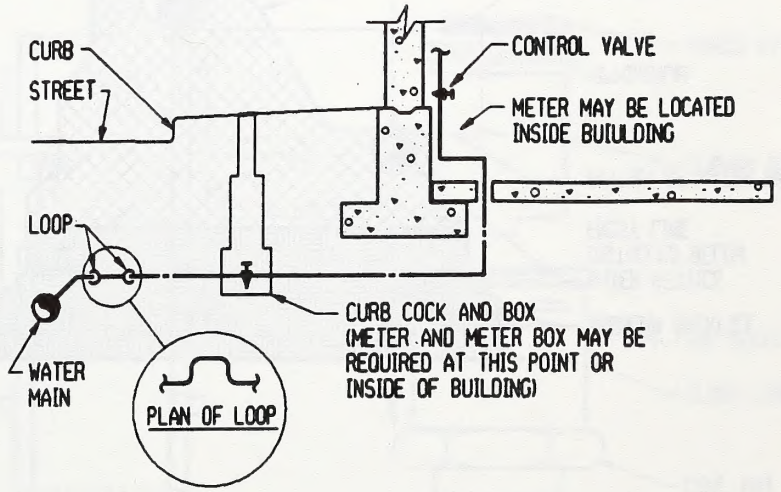
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Section 890.Appendix I Iliustrations for Subpart I

ILLUSTRATION H Water Supply Control

(Referenced in Section 890.1190(a) & (b))



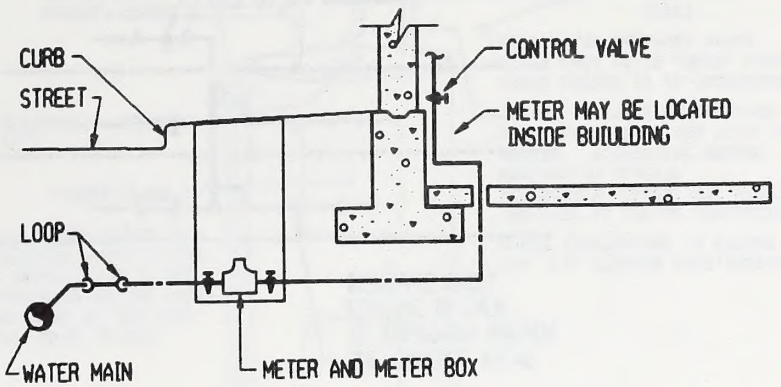
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION I Shut-Off Valve at Meter

(Referenced in Section 890.1190(b))



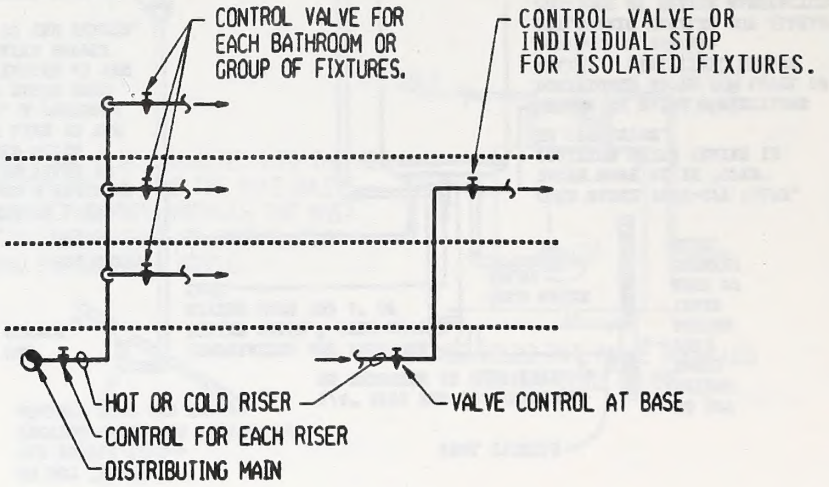
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION J Separate Controls for Each Family Unit

(Referenced in Section 890.1190(d))



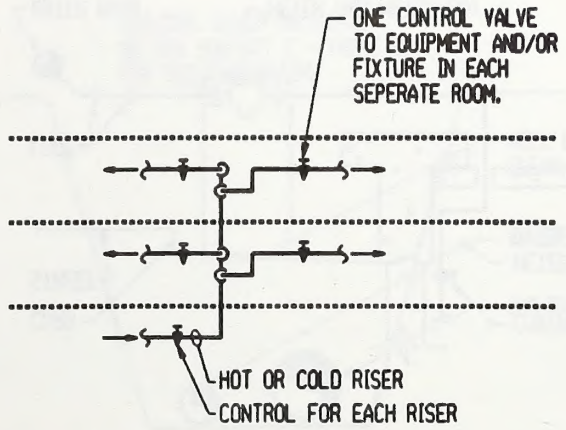
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION K Shut-Off Valves in Buildings Other Than Dwellings

(Referenced in Section 890.1190(f))



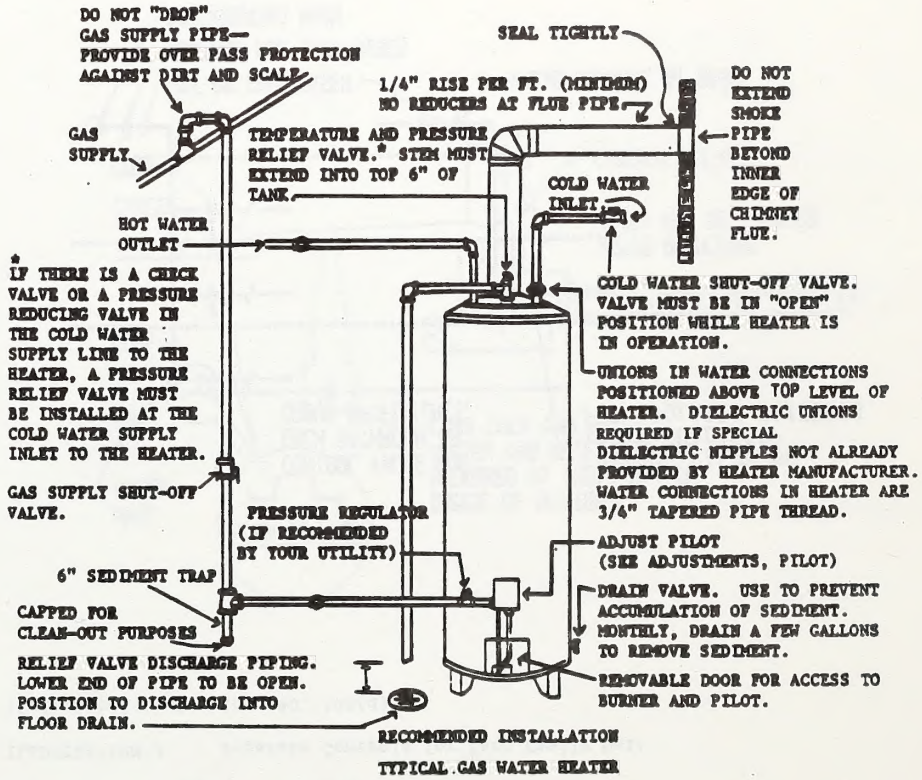
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION L Typical Gas Water Heater

(Referenced in Section 890.1220(a)(1))



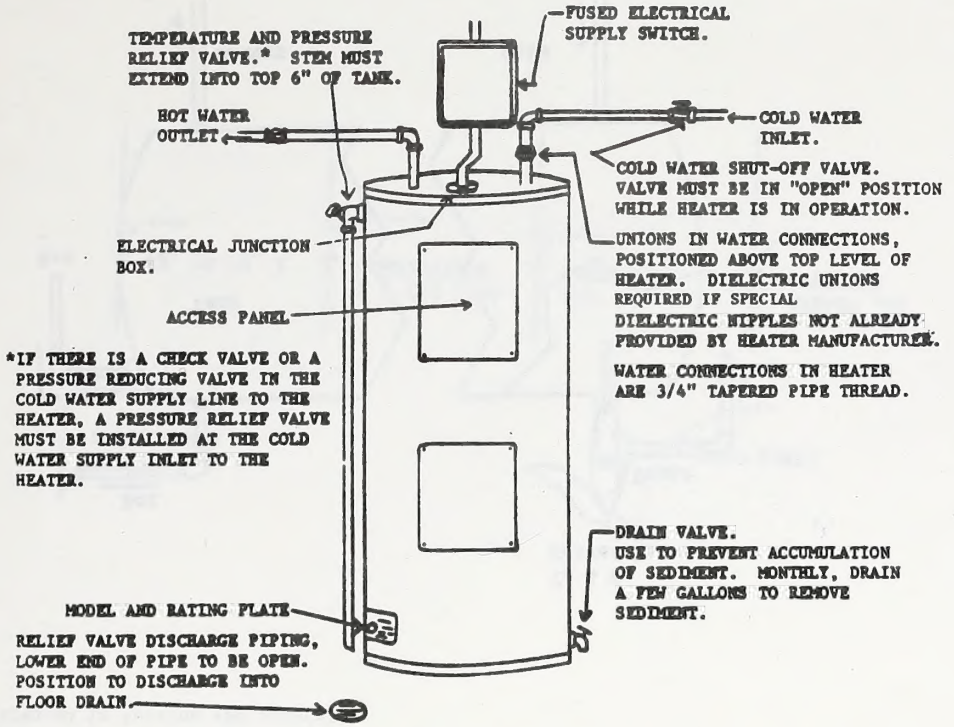
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION M Typical Electric Water Heater

(Referenced in Section 890 1220(a)(1))



RECOMMENDED INSTALLATION

TYPICAL ELECTRIC WATER HEATER

DEPARTMENT OF PUBLIC HEALTH

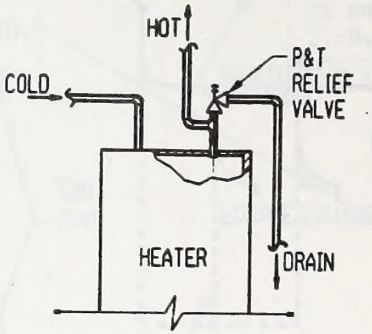
NOTICE OF PROPOSED RULES

Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION N P & T Valve Installed in Hot Outlet Line

(Referenced in Section 890.1230(c))

WHEN VALVE IS CONNECTED INTO THE HOT WATER OUTLET LINE THE MALE INLET CONNECTION TYPE PROVIDES THE MOST CONVENIENT MEANS OF INSTALLATION AND ELIMINATES A NIPPLE.



U.S.A.S Z21.22 P&T VALVE INSTALLED IN HOT OUTLET LINE

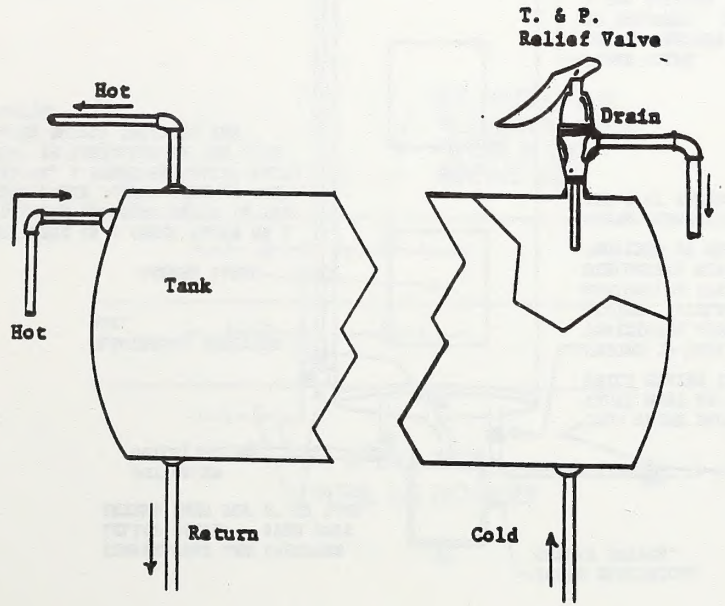
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix I Illustrations for Subpart I

ILLUSTRATION O P & T Relief Valve

(Referenced in Section 890.1230(c))



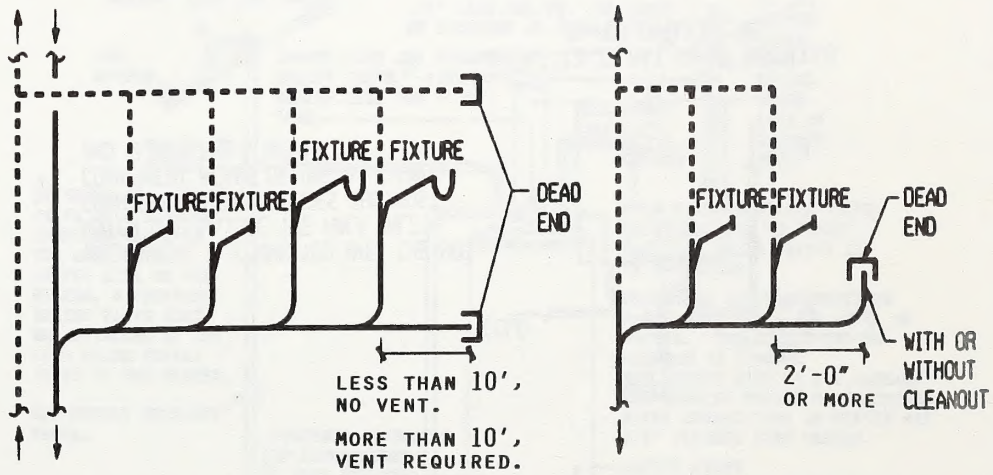
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION A Dead Ends

(Referenced in Section 890.1320(d))



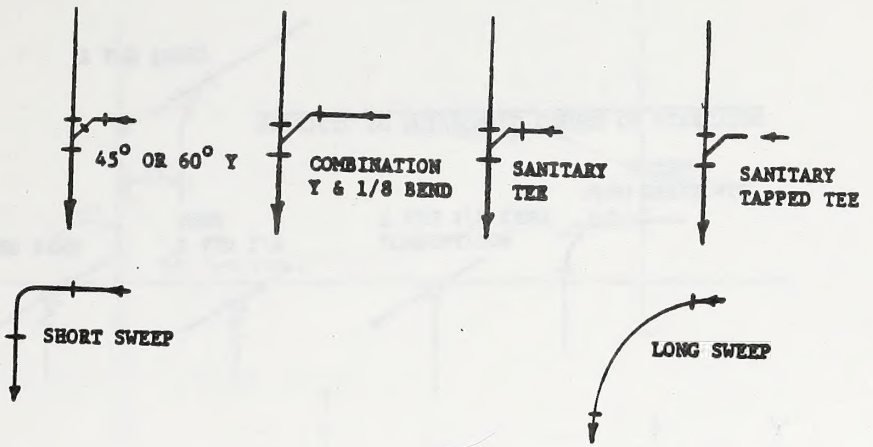
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION B Horizontal to Vertical Change of Direction

(Referenced in Section 890.1320(i))



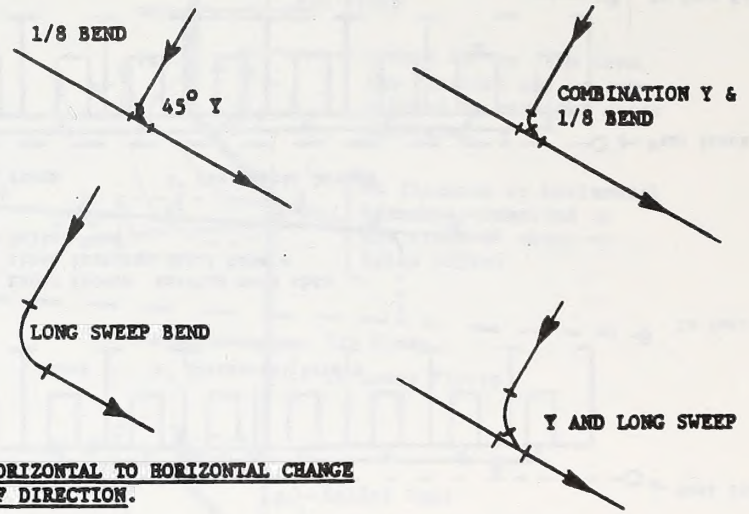
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION C Horizontal to Horizontal Change of Direction

(Referenced in Section 890.1320(i))



HORIZONTAL TO HORIZONTAL CHANGE OF DIRECTION.

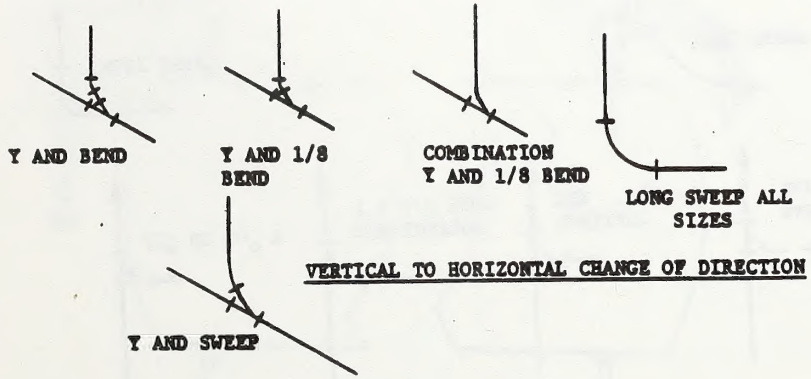
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION D Vertical to Horizontal Change of Direction

(Referenced in Section 890.1320(i))



VERTICAL TO HORIZONTAL CHANGE OF DIRECTION

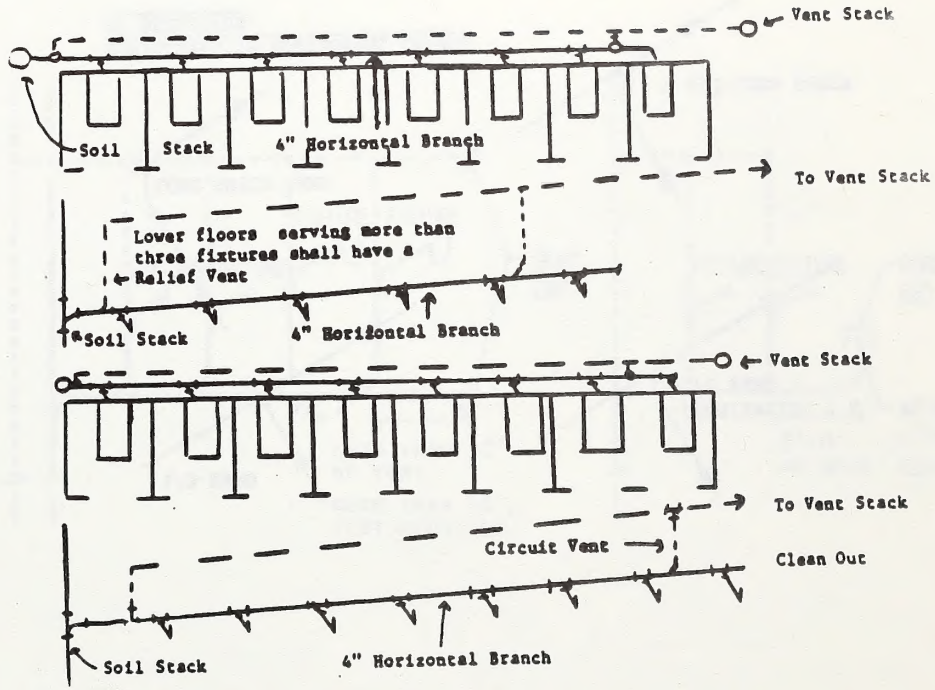
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION E Fixture Connections

(Referenced in Section 890.1320(1))



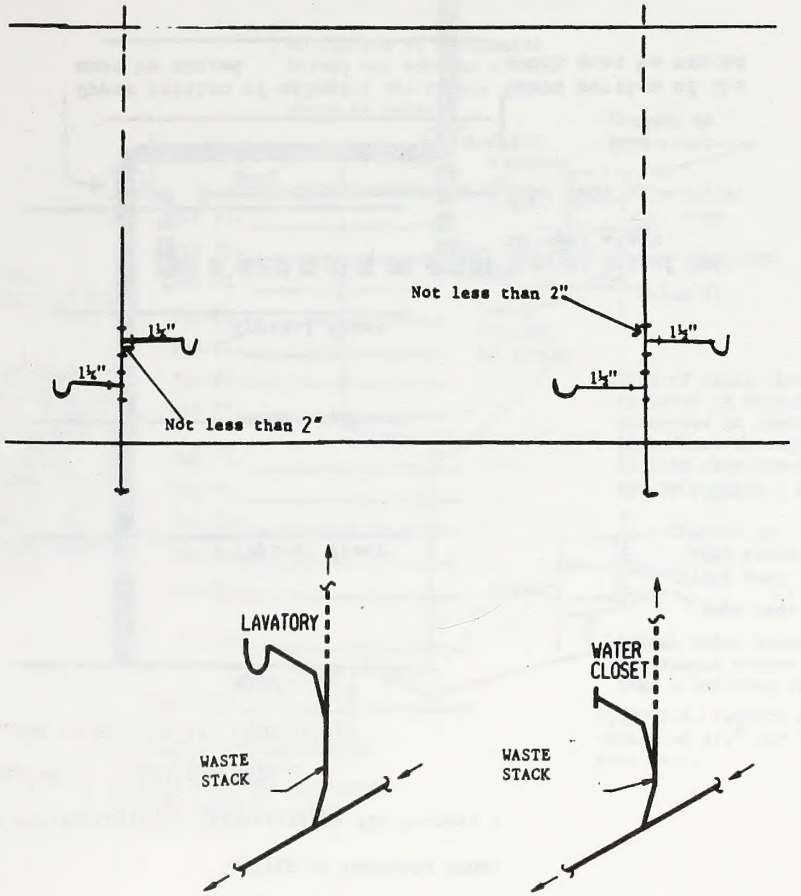
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION F Waste Stacks

(Referenced in Section 890.1340(d))



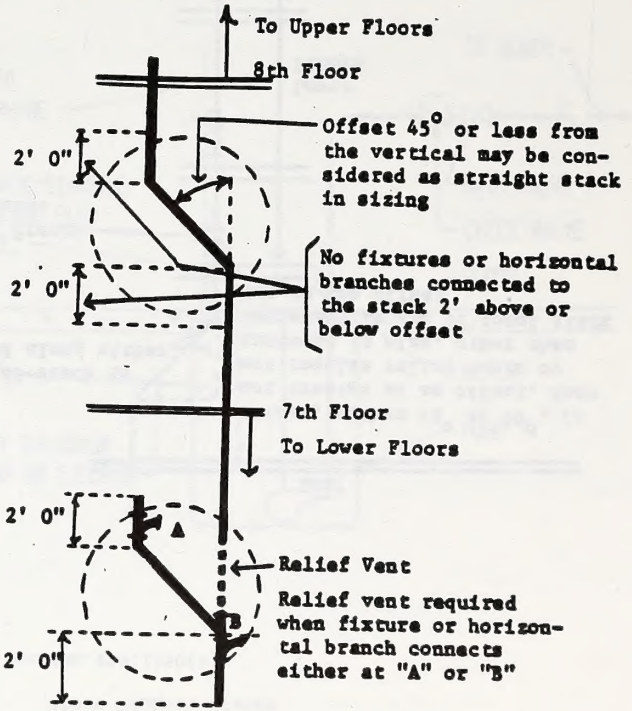
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION G Offsets on Drainage Piping

(Referenced in Section 890.1350)



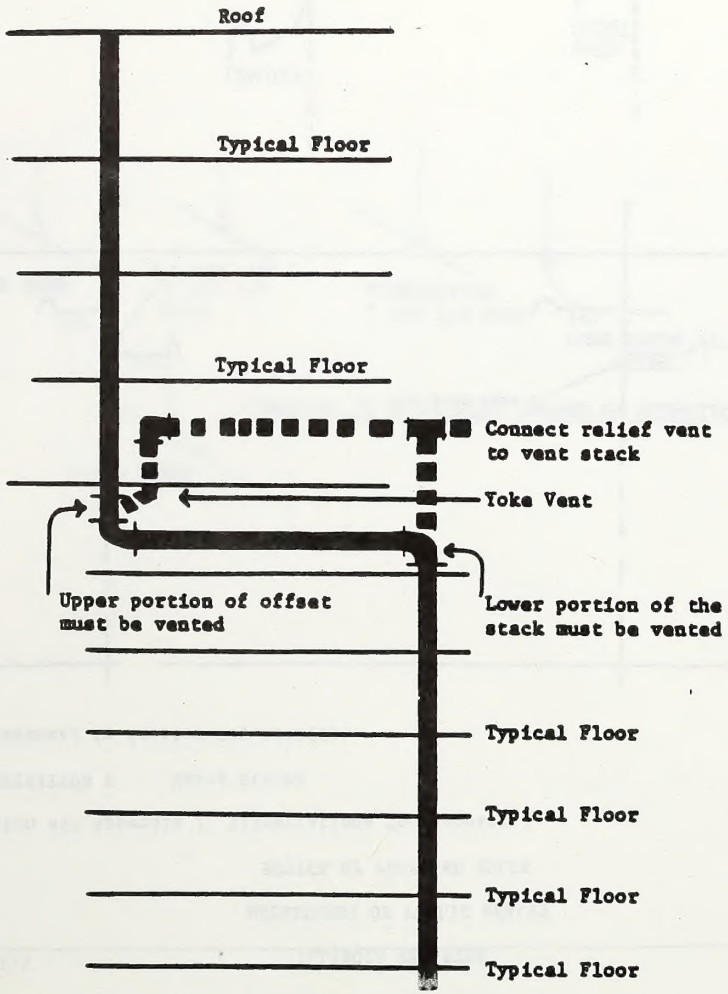
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION H Relief Vent

(Referenced in Section 890.1350(b)(4))



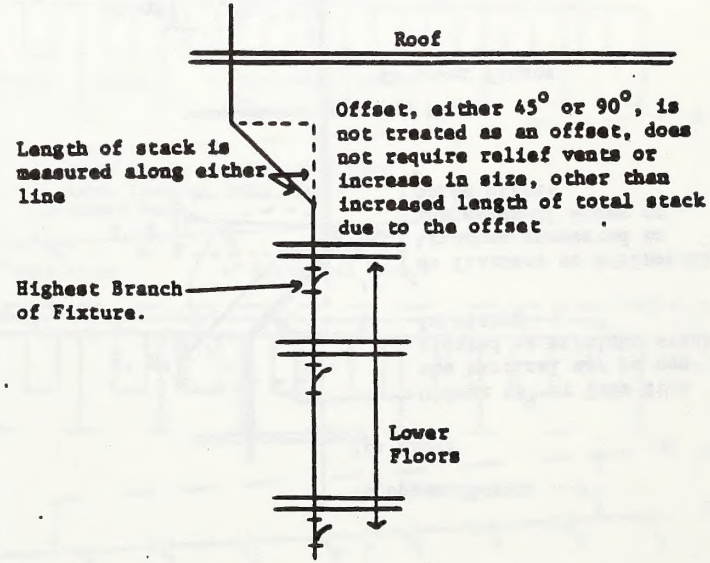
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION I Above Highest Branch

(Referenced in Section 890.1350(c))



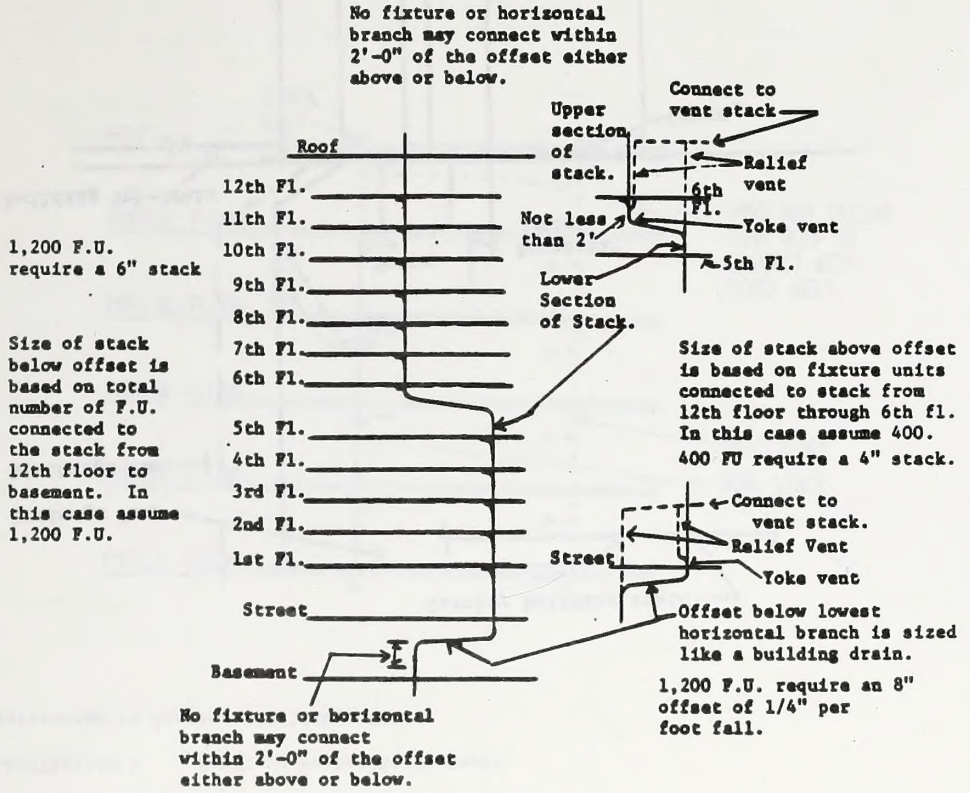
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION J Below Lowest Branch

(Referenced in Section 890.1350(d))



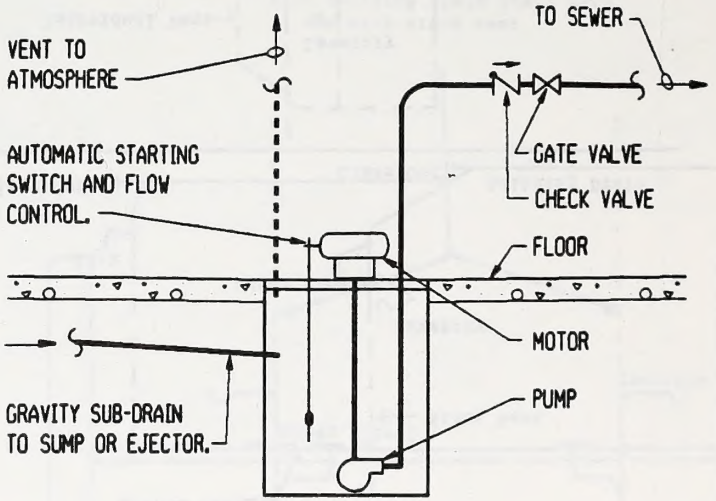
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION K Drainage Below Sewer Level

(Referenced in Section 890.1360(a)(1))



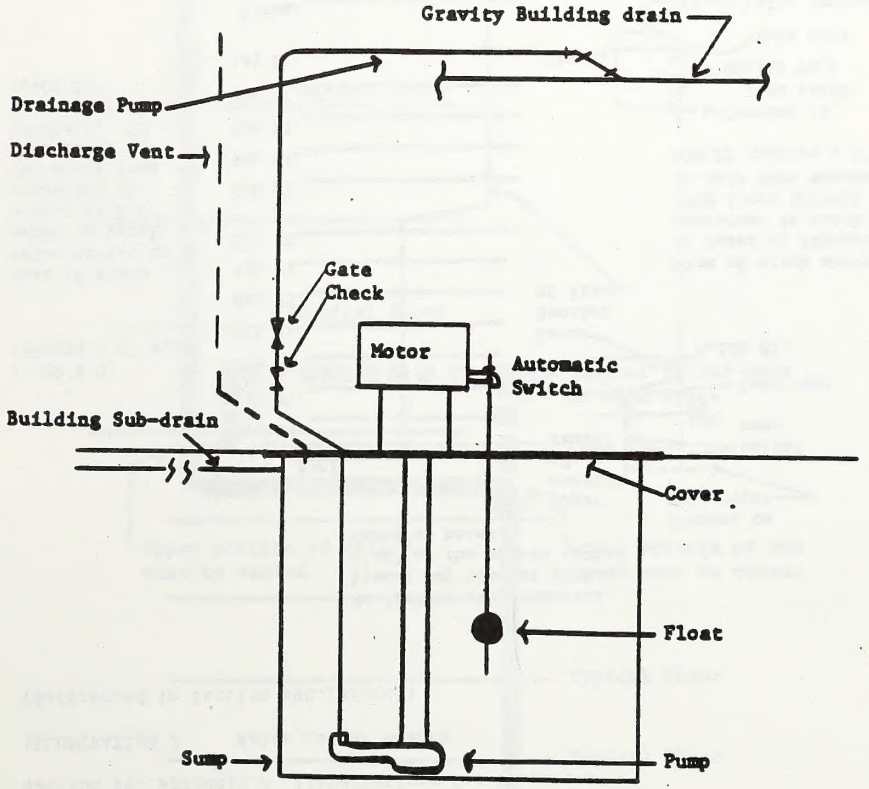
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix J Illustrations for Subpart J

ILLUSTRATION L Sanitary Wastes Below Sewer

(Referenced in Section 890.1360(a)(1))



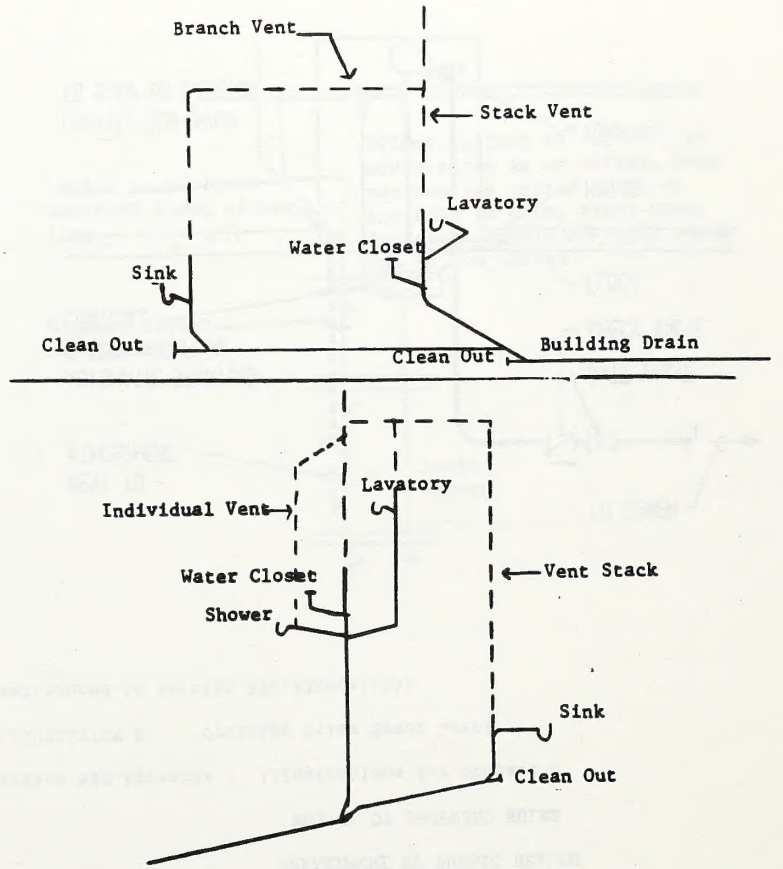
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION A Installation of Vent Stack or Main Vent

(Referenced in Section 890.1420(b))



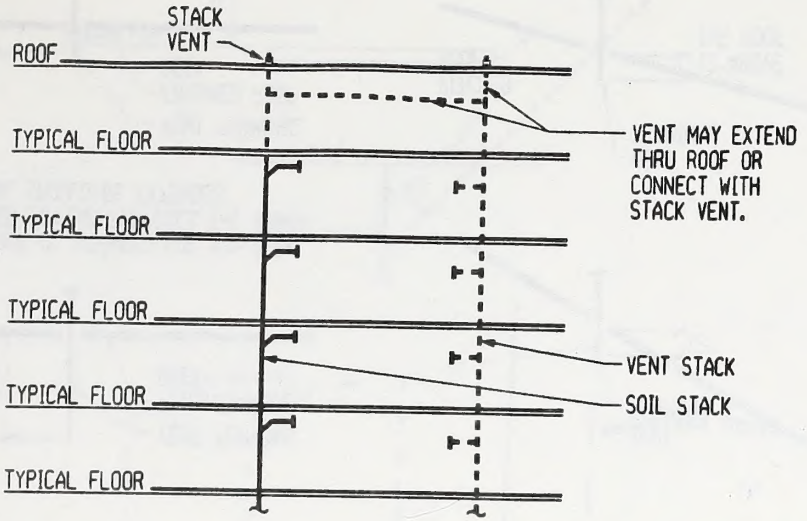
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION B Terminal

(Referenced in Section 890.1420(c))



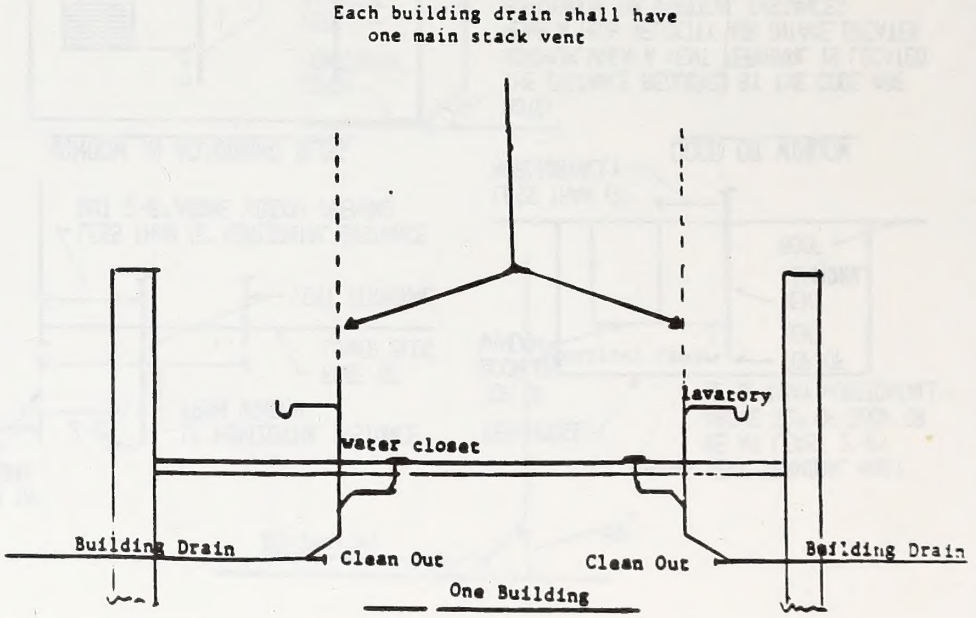
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION C Main Stack

(Referenced in Section 890.1420(d))



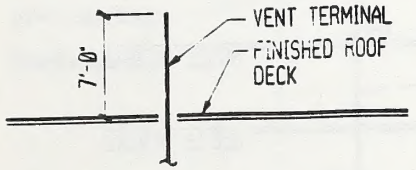
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

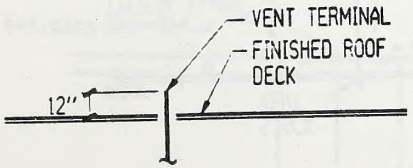
Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION D Roof Garden

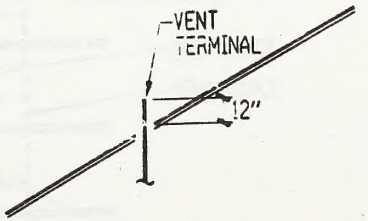
(Referenced in Section 890.1430(a))

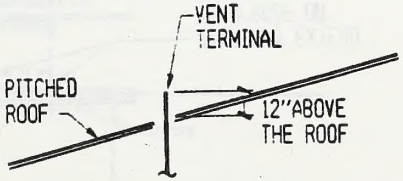


WHEN ROOF IS INTENDED FOR SUN DECK OR OTHER SIMILAR PURPOSES, THE VENT TERMINAL SHOULD BE EXTENDED.



WHEN ROOF IS USED FOR WHEATHER PROTECTION ONLY





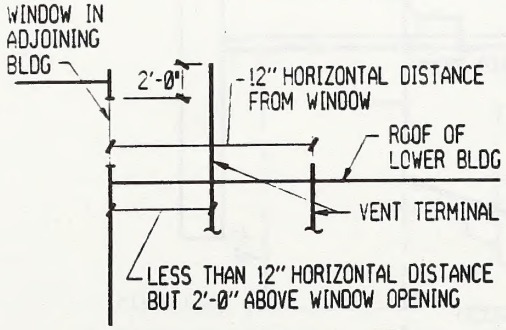
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

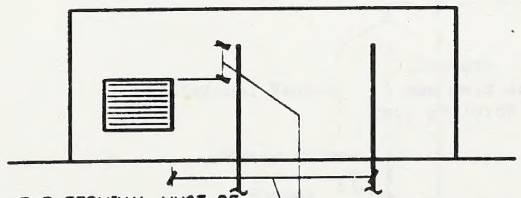
Section 890.Appendix K Illustrations for Subpart K

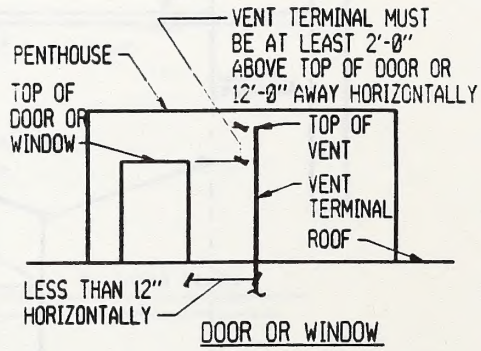
ILLUSTRATION E Location of Vent Terminal

(Referenced in Section 890.1430(c))



WINDOW IN ADJOINING BLDG.





DOOR OR WINDOW

NOTE:
THE DISTANCE REQUIRED BY THE CODE ARE MINIMUM. WHEN A VENT TERMINAL IS LOCATED NEAR A HIGH VELOCITY AIR INTAKE, GREATER HORIZONTAL OR VERTICAL DISTANCES SHOULD BE ALLOWED.

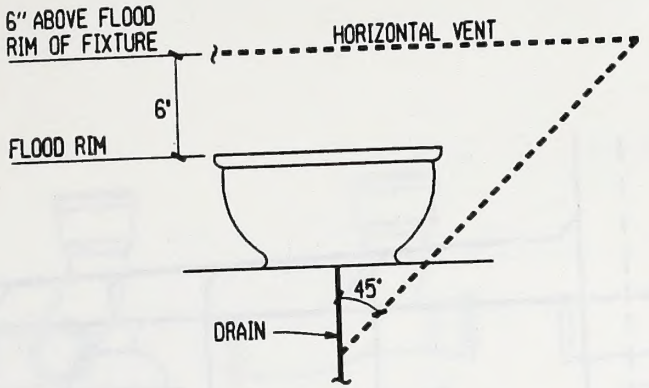
DEPARTMENT OF PUBLIC HEALTH

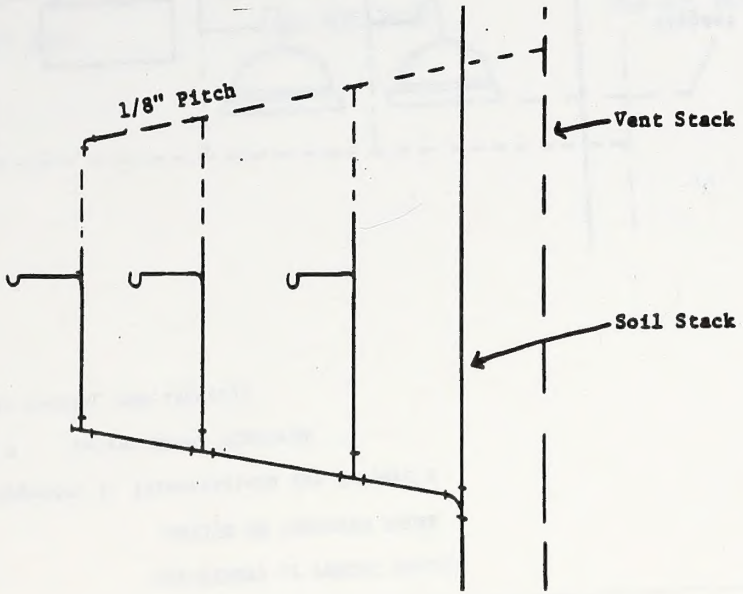
NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION F Grade

(Referenced in Section 890.1450(a))





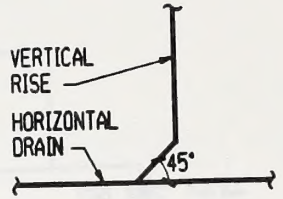
DEPARTMENT OF PUBLIC HEALTH

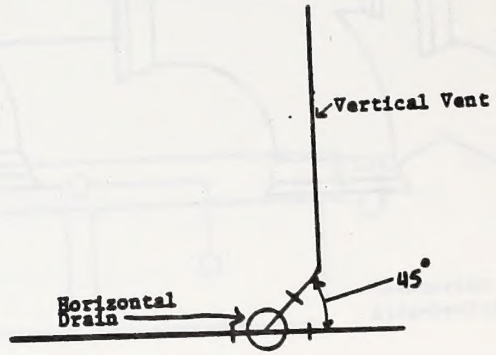
NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION G Vertical Rise

(Referenced in Section 890.1450(b))





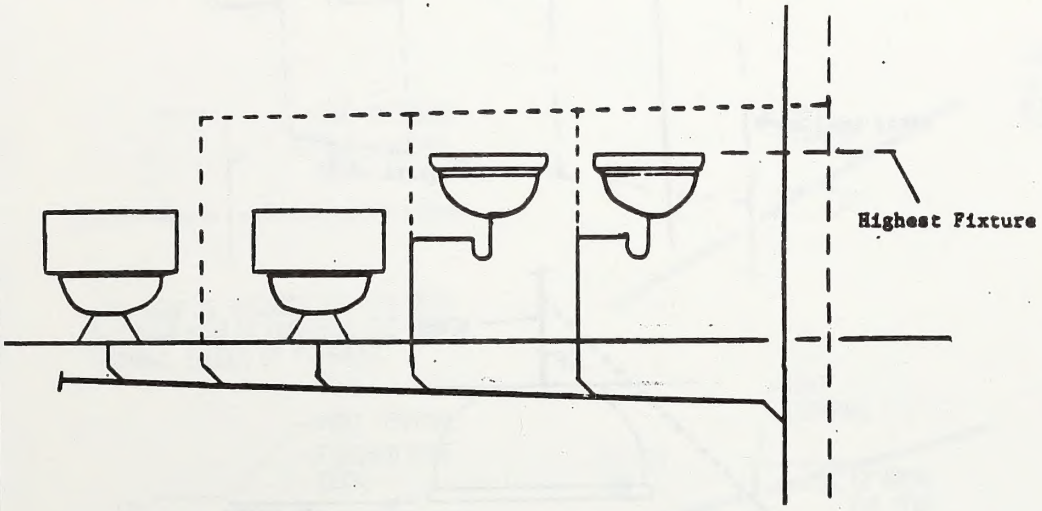
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION H Height Above Fixtures

(Referenced in Section 890.1450(c))



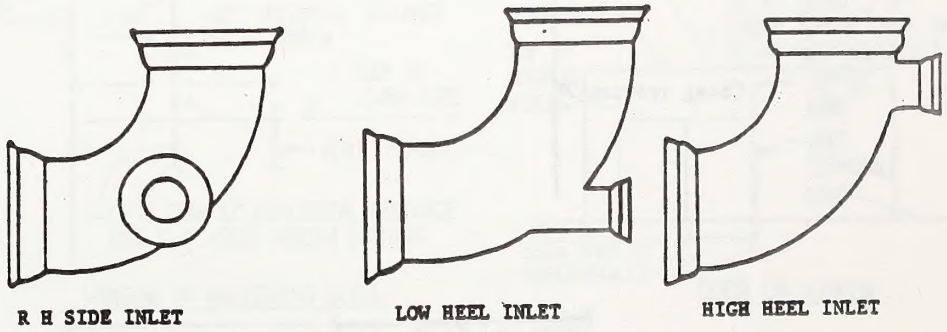
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION I Quarter Bends

(Referenced in Section 890.1450(e))



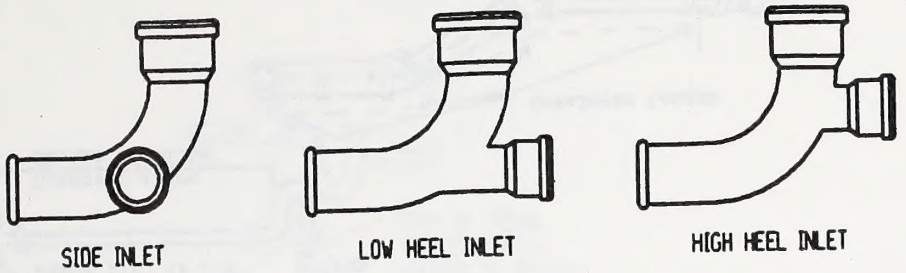
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION J Heel or Side-Inlet

(Referenced in Section 890.1450(e))



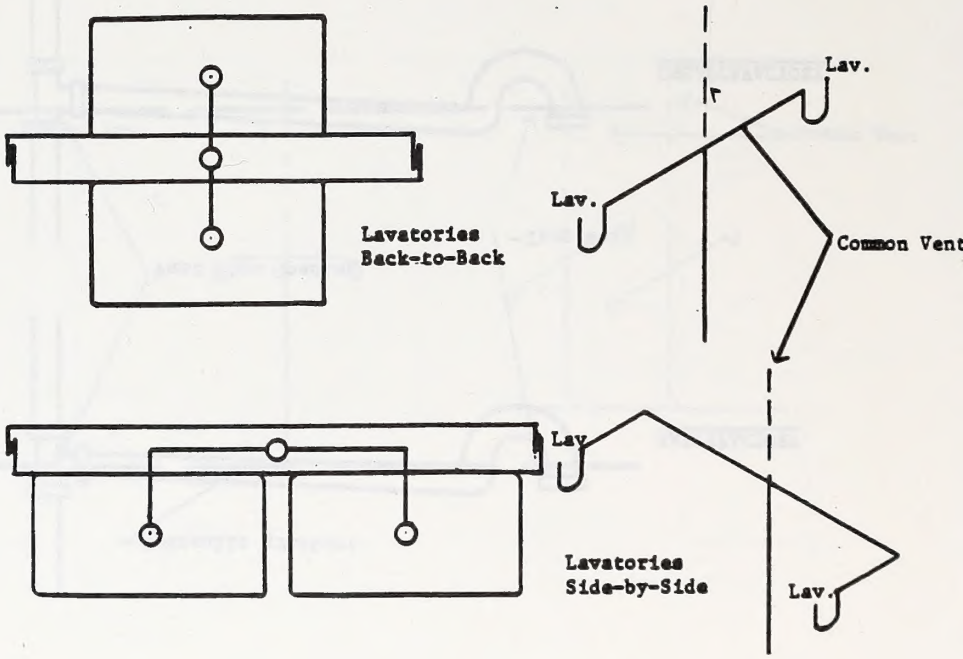
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION K Fixtures Back-to-Back and Side-by-Side

(Referenced in Section 890.1460)



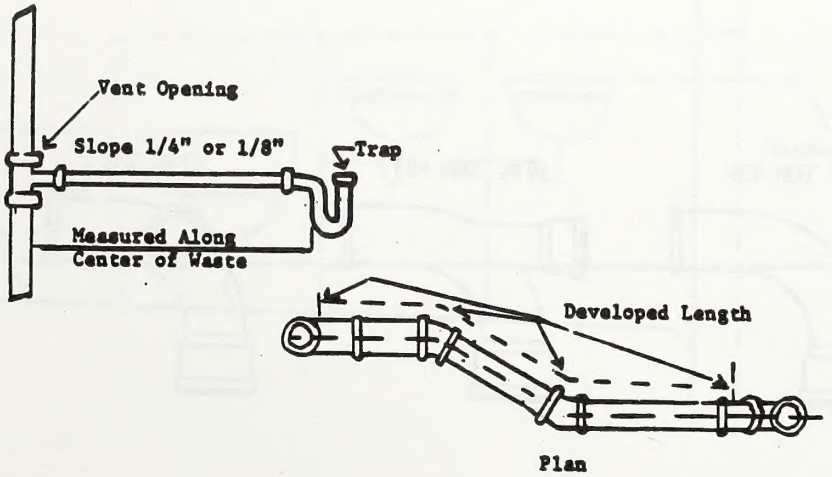
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION L Distance from Trap to Vent

(Referenced in Section 890.1470(a))



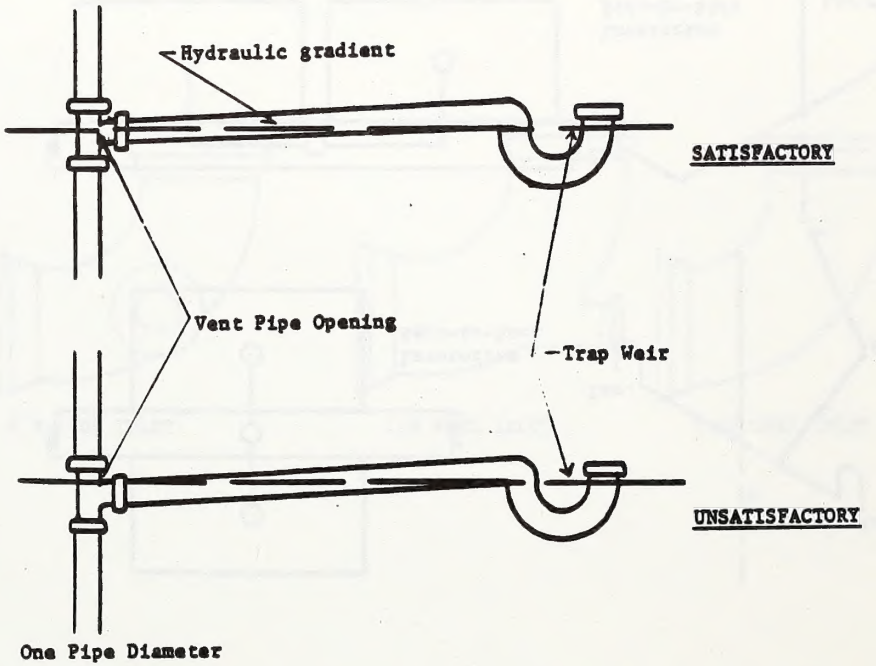
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION M Trap Weir

(Referenced in Section 890.1470(b))



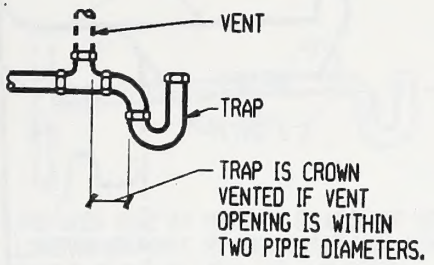
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION N Trap Vent

(Referenced in Section 890.1480(a))



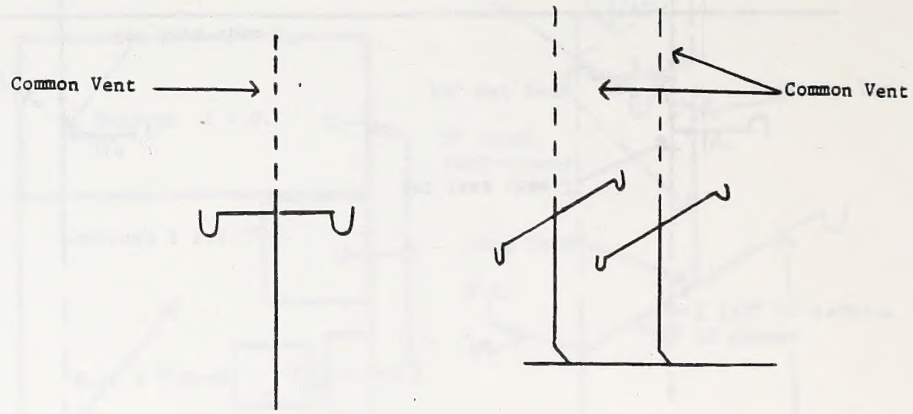
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION O Common Vent

(Referenced in Section 890.1480(b))



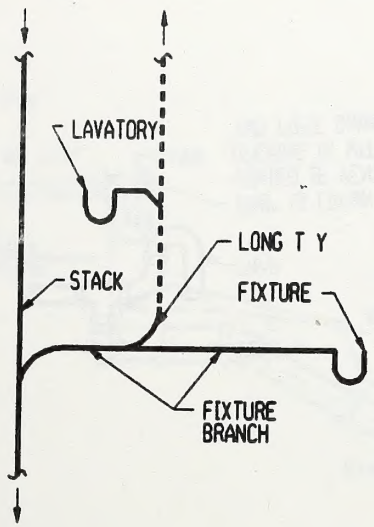
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION P Wet Vent

(Referenced in Section 890.1480(c))



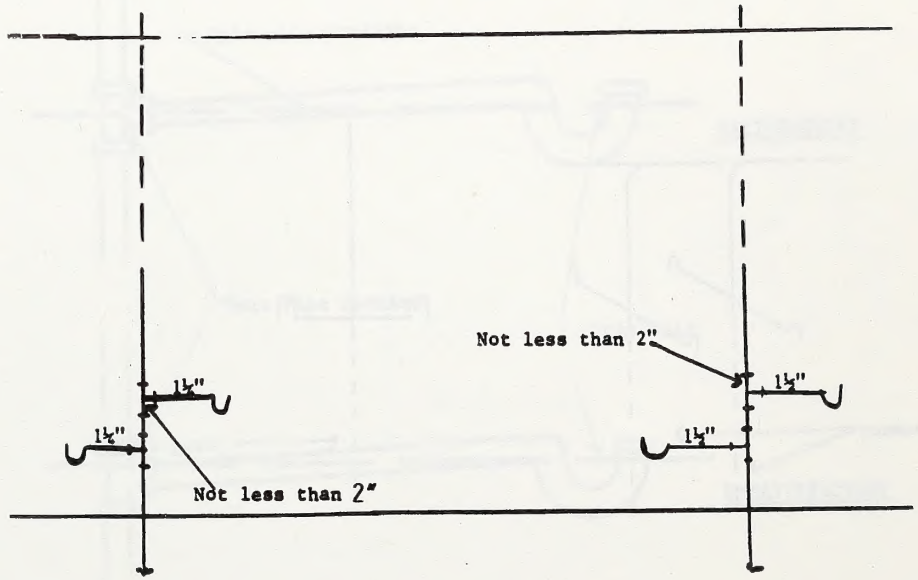
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION Q Vertical Wet Vent

(Referenced in Section 890.1480(c))



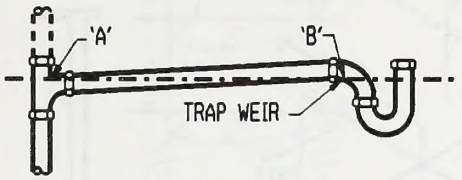
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION R Hydraulic Gradient

(Referenced in Section 890.1490(a))



THE OPEN VENT AT POINT 'A' SHOULD NOT BE LOWER THAN POINT 'B' WHEN A STRAIGHT LEVEL LINE IS DRAWN BETWEEN THE TWO POINTS.

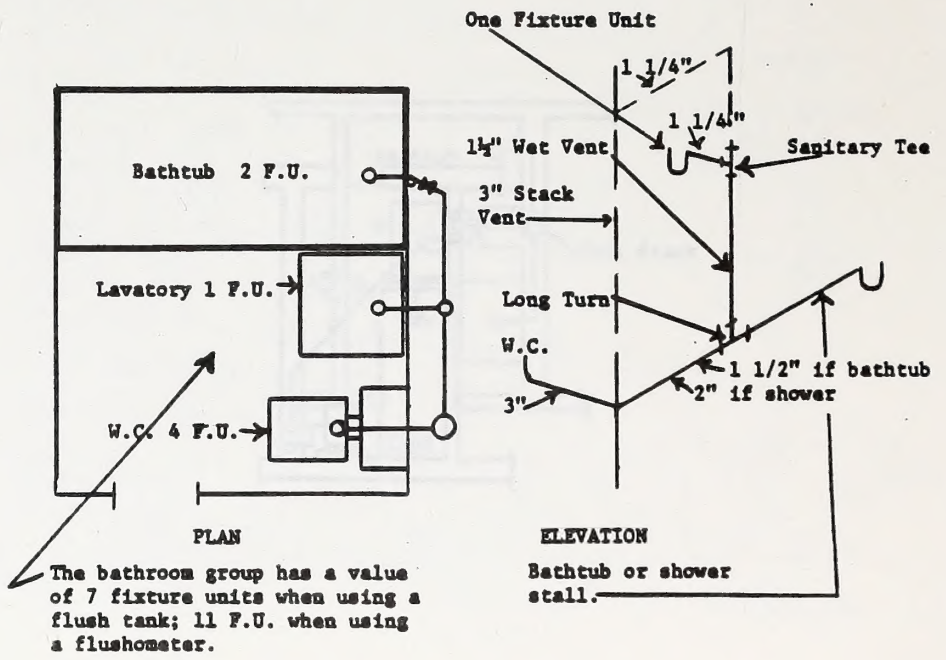
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION S Single Bathroom Groups

(Referenced in Section 890.1500(a)(2))



The bathroom group has a value of 7 fixture units when using a flush tank; 11 F.U. when using a flushometer.

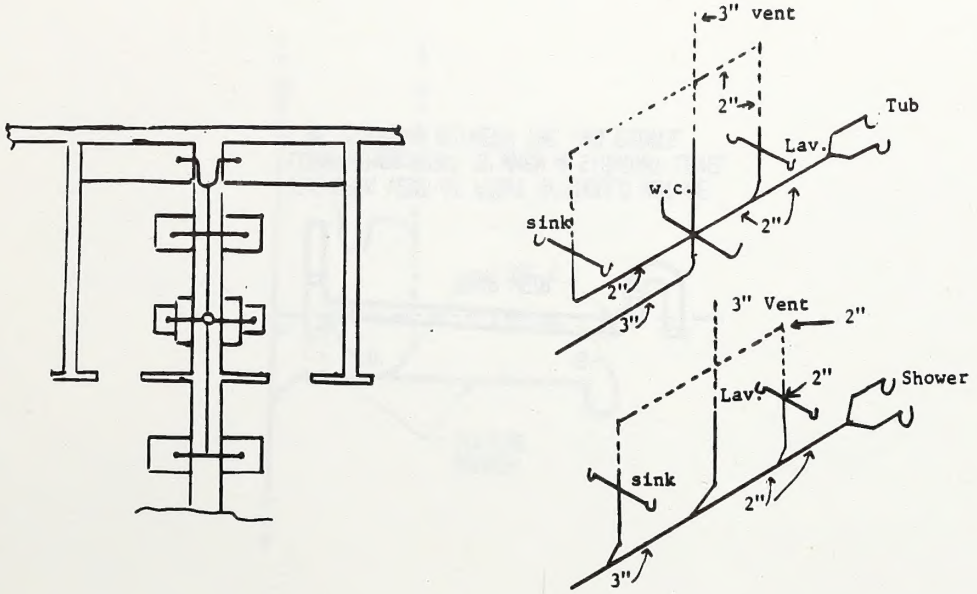
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION T Double Bath

(Referenced in Section 890.1500(b))



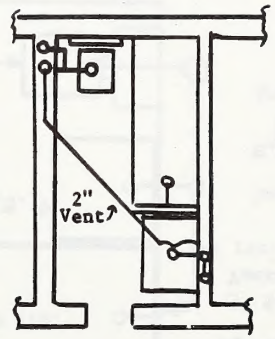
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION U Multistory Bathroom Groups-Plan

(Referenced in Section 890.1500(c))



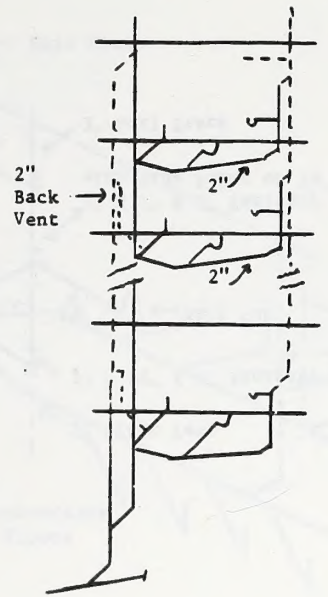
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION V Multistory Bathroom Groups-Elevation

(Referenced in Section 890.1500(c))



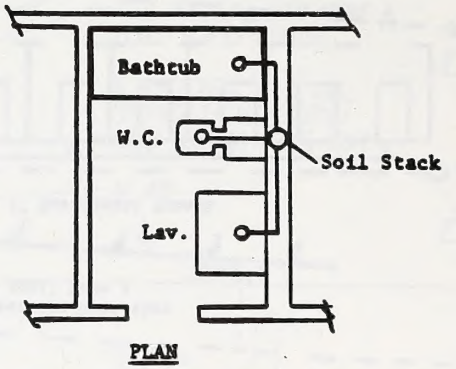
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION W One Bathroom Group-Plan

(Referenced in Section 890.1510)



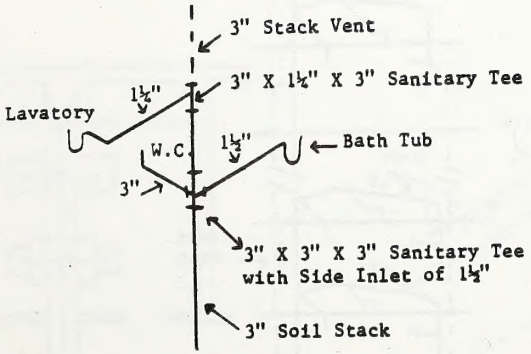
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION X One Bathroom Group-Elevation

(Referenced in Section 890.1510)



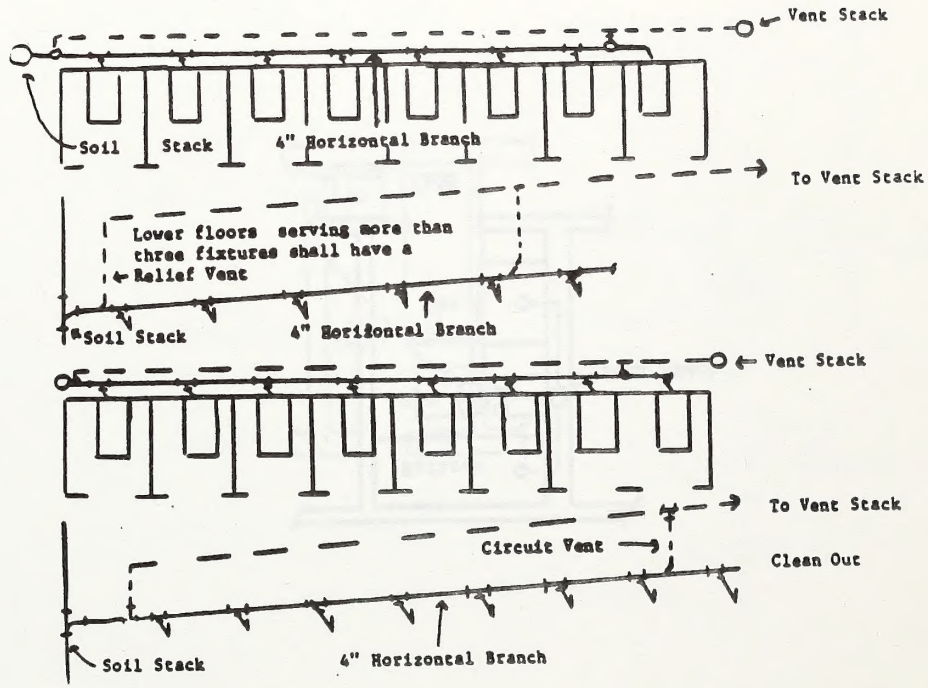
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION Y Battery Venting

(Referenced in Section 890.1520(a))



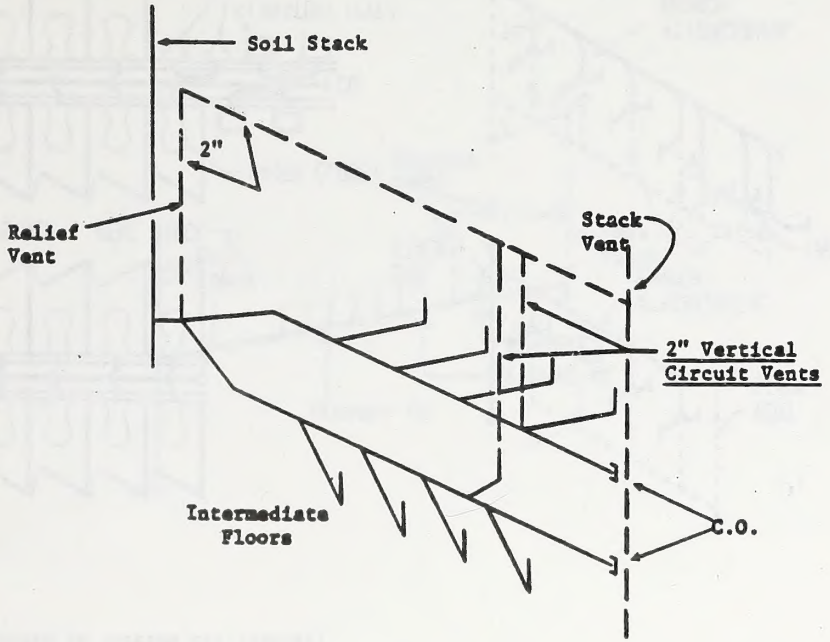
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION Z Dual Branches

(Referenced in Section 890.1520(b))



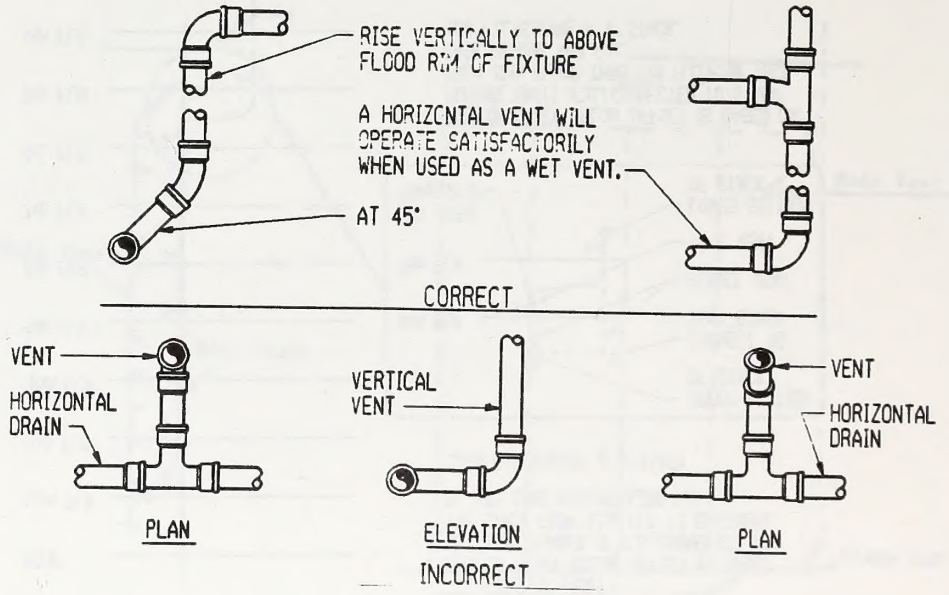
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION AA Right and Wrong Vent Connections

(Referenced in Section 890.1520(c))



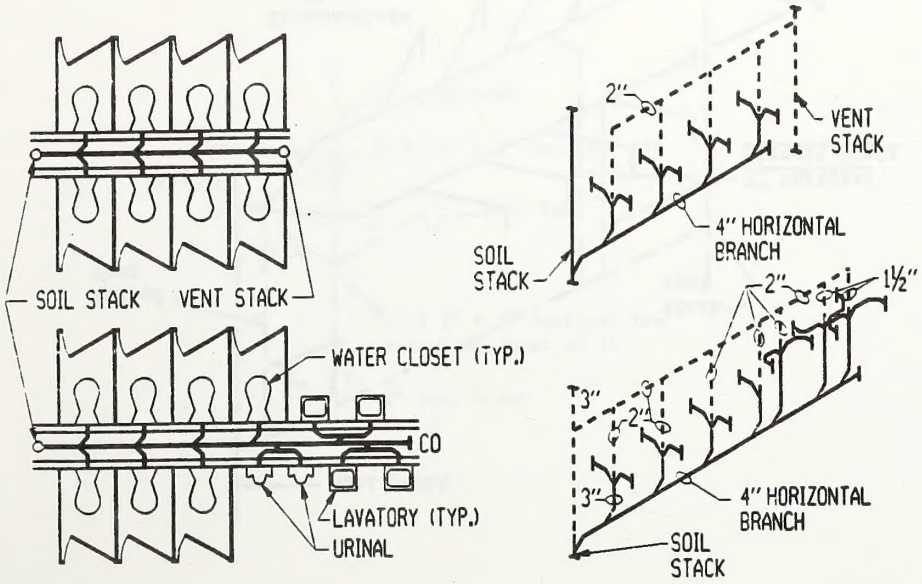
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION BB Fixtures Back-to-Back in Battery

(Referenced in Section 890.1520(d))



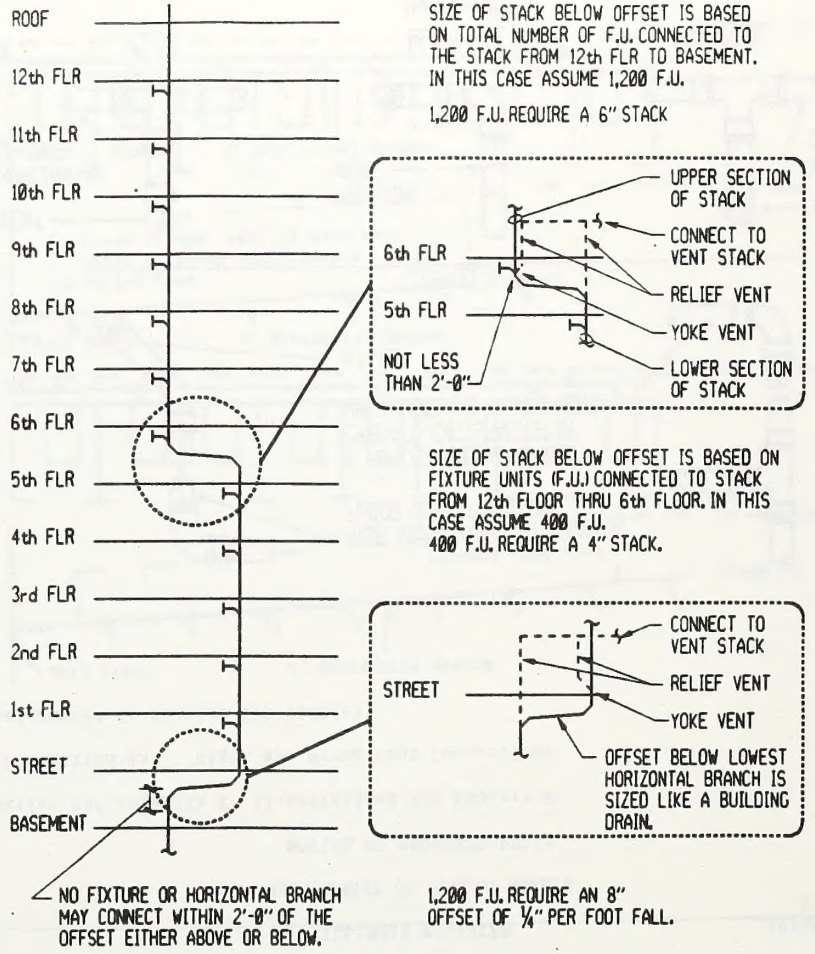
DEPARTMENT OF PUBLIC HEALTH

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Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION CC Fixture Connections-Offset Vents

(Referenced in Sections 890.1520(e) & 890.1550(a))



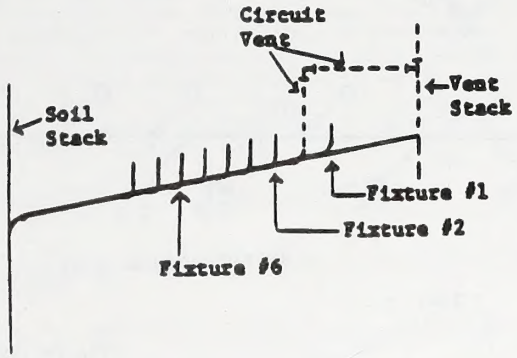
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION DD Circuit Vented Fixtures

(Referenced in Section 890.1520(f))



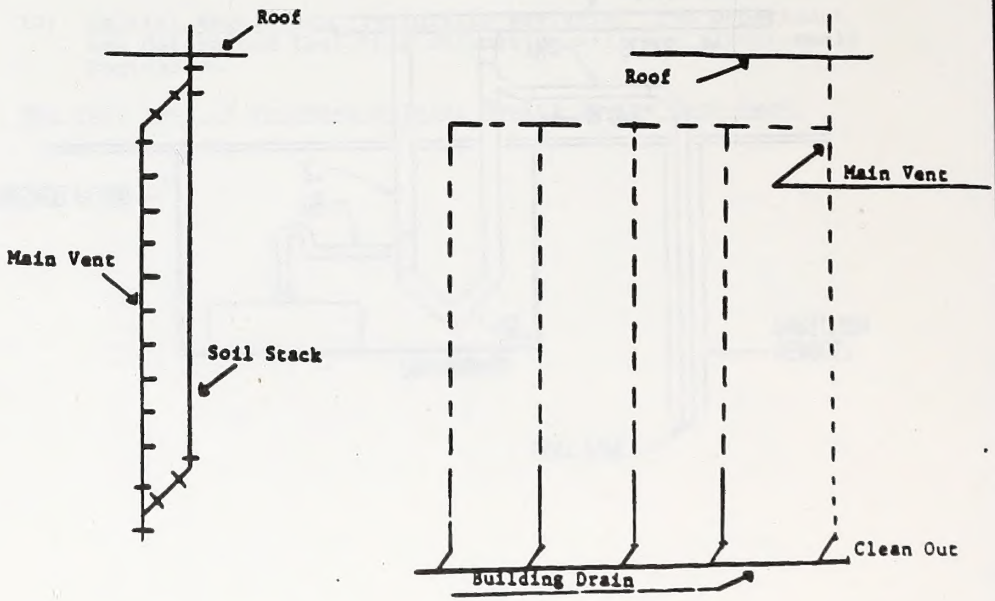
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION EE Main Vents

(Referenced in Section 890.1560)



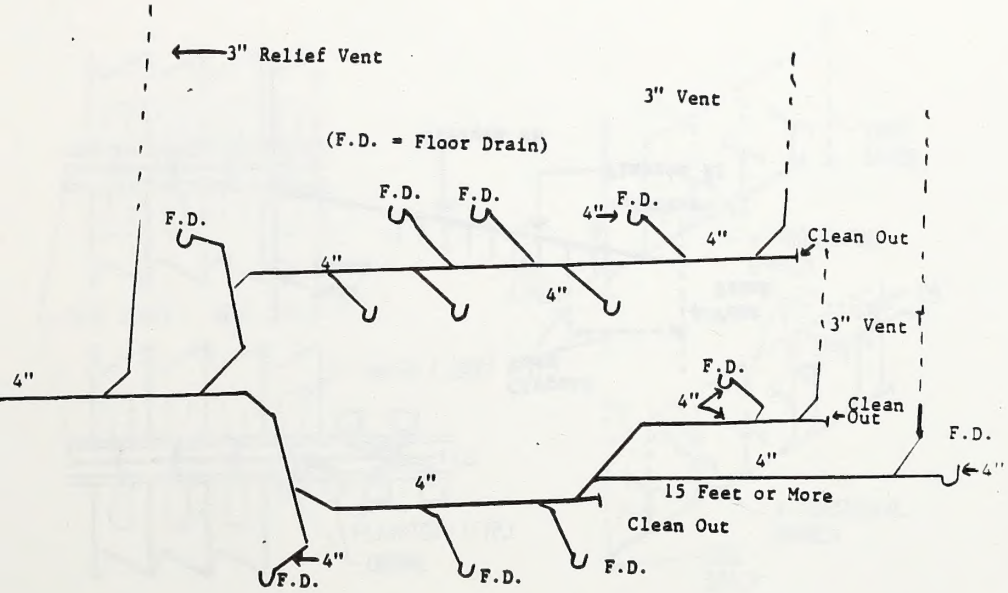
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION FF Combination Waste and Vent

(Referenced in Section 890.1590(a))



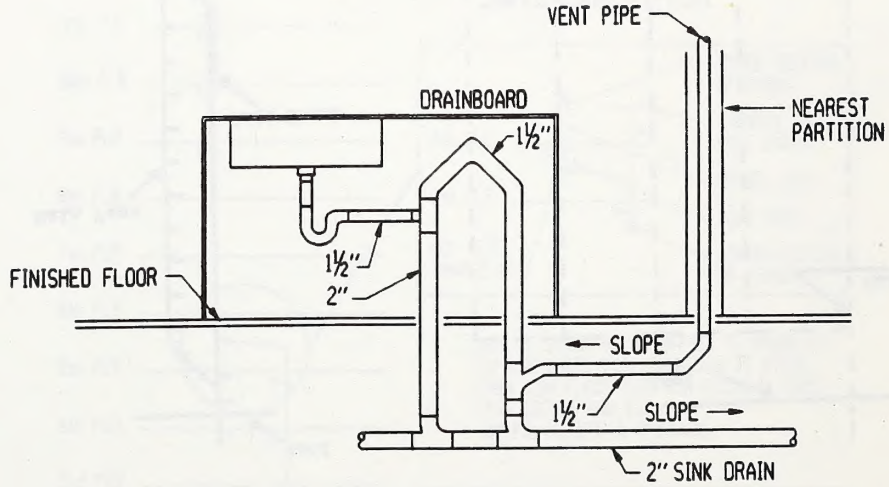
DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED RULES

Section 890.Appendix K Illustrations for Subpart K

ILLUSTRATION GG Special Vesting for Island Fixtures

(Referenced in Section 890.1600(b))



DEPARTMENT OF REHABILITATION SERVICES

NOTICE OF PROPOSED AMENDMENTS

1) Heading of the Part: Auxiliary Aids

2) Code Citation: 89 Ill. Adm. Code 540

3) Section Numbers: Adopted Action:

540.50 Amendment

4) Statutory Authority: Implementing and authorized by section 3(k) of the Disabled Persons Rehabilitation Act. (Ill.Rev. Stat. 1991, Ch.23, par 3434(k))

5) A Complete Description of the Subjects and Issues involved:

540.50 is being amended to reflect policy's the Department of Rehabilitation Services will maintain toward interpreters with regards to; the filing of certifications, minimum time periods interpreters will be paid, mileage allowance, assignment cancellations, client no shows, and expectations of an interpreter if they cancel an assignment.

6) Will this proposed rule (amendment, repealer) contain incorporations by reference? No

7) Does this rulemaking contain an automatic repeat date?
___ Yes X No

8) Does this rule (amendment, repealer) contain incorporations by reference? No

9) Are there any amendments pending on this Part? No

Section Numbers Proposed Action Illinois Register Citation

10) Statement of Statewide Policy Objectives (if applicable):
This is not applicable to this Rulemaking.

11) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Interested persons may present their comments concerning these rules within 45 days after this issue of the Illinois Register. All requests and comments should be submitted in writing to:

Ms. Susan Warrner, Manager
Regulations and Procedures Division
Department of Rehabilitation Services
P.O. Box 19429

DEPARTMENT OF REHABILITATION SERVICES

NOTICE OF PROPOSED AMENDMENTS

Springfield, Illinois 62794-9429

Telephone number: (217) 785-3896
T.D.D./T.T.: (217) 785-9301

If because of physical disability you are unable to put comments into writing, you may make them orally to the person listed above.

12) Initial Regulatory Flexibility Analysis: The Department has determined that this rulemaking will not affect small businesses.

The full text of Proposed Rule(s) begins on the next page:

DEPARTMENT OF REHABILITATION SERVICES

NOTICE OF PROPOSED AMENDMENT

TITLE 89: SOCIAL SERVICES
CHAPTER IV: DEPARTMENT OF REHABILITATION SERVICES
SUBCHAPTER a: GENERAL PROGRAM PROVISIONS

PART 540
AUXILIARY AIDS

Section
540.10 Provision of Auxiliary Aids for Internal Activities
540.20 Provision of Auxiliary Aids by Service Providers
540.30 Provision of Auxiliary Aids by DORS for Program Participation
540.40 Aids or Equipment for Persons Who Are Blind or Visually Impaired
540.50 Interpreters for ~~the Hearing Impaired~~ Persons Who are Deaf, Hard of Hearing, or Deaf-Blind

AUTHORITY: Implementing and authorized by Section 3(k) of The Disabled Persons Rehabilitation Act. (Ill. Rev. Stat. 1991, ch. 23, par. 3434(k)).

SOURCE: Adopted at 8 Ill. Reg. 4516, effective March 30, 1984; amended at 12 Ill. Reg. 14300, effective August 29, 1988; amended at 14 Ill. Reg. 5808, effective April 5, 1990; amended at 17 Ill. Reg. _____, effective _____.

Section 540.50 Interpreters for ~~the Hearing Impaired~~ Persons Who are Deaf, Hard of Hearing or Deaf-Blind

The Department of Rehabilitation Services (DORS) shall purchase/provide interpreter services for persons who are deaf, hard of hearing, or deaf-blind in accordance with Sections 540.10 (c), 540.20 and 540.30.

a) Certified interpreters shall have a ~~current~~ copy of their current certification on file with DORS Division of Services for the Hearing Impaired in order to be paid the ~~full~~ applicable certified rate. Interpreters will be paid on an hourly, half-day, full-day or assignment rate. DORS considers a half-day to consist of 3.5 to 4.0 hours and a full-day to consist of 7.5 to 8.5 hours.

b) Interpreters shall be paid for a minimum of a two hour time period even though the worktime may be less than two hours. If there is less than a one hour lapse (e.g., lunch, break) in the interpreter assignment,

DEPARTMENT OF REHABILITATION SERVICES

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payment will be for the total time span of the assignment.

c) Interpreters who may not be ~~working~~ interpreting but are required to be on the site (e.g., for labs, workshops, preparation for classes) shall be paid during this time.

d) When an interpreter must travel a distance of 20 or more miles one-way for an assignment, DORS will pay the mileage allowance in accordance with State Travel Regulations (89 Ill. Adm. Code 3000. Appendix A).

e) An interpreter shall not bill DORS when DORS has cancelled more than 48 hours in advance of an assignment. An interpreter who is cancelled by a DORS employee or a DORS client less than 48 hours in advance of the assignment may bill DORS for the assignment time scheduled. ~~within the two day span~~ However, if such a cancellation occurs on a multiple day assignment, the interpreter will be paid only for the time scheduled during the first 48 hours of the assignment (e.g., if a cancellation occurs and an interpreter is scheduled for three hours on day one and five hours on day two, the interpreter may bill for eight hours total).

f) In the event a client does not appear for a scheduled appointment, the interpreter shall stay on site for a minimum of one hour and then telephone the DORS contact person for direction.

g) If an interpreter cancels an assignment, he/she shall notify the DORS contact person immediately and work with the DORS contact person to attempt to locate a qualified interpreter. DORS contact person reserves the right to approve any substitute interpreter. No finder's fee will be paid to the original interpreter if that interpreter finds an acceptable substitute.

(SOURCE: amended at 17 Ill. Reg._____, effective_____)

DEPARTMENT OF REHABILITATION SERVICES

NOTICE OF PROPOSED AMENDMENTS

1) Heading of the Part: Non-Academic Programs and Policies

2) Code Citation: 89 Ill. Adm. Code 830

3) Section Numbers: Adopted Action:

830.50 Amendment

4) Statutory Authority: Implementing sections 10 and 11 and authorized by Act (Ill. Rev. Stat. 1991, ch.23, pars 3441, 3442, and 3434(f)).

5) A Complete Description of the Subjects and Issues involved:

830.50 is being amended with the addition of a section "h" which will detail the policy of Department of Rehabilitation Schools when a diagnosis of Pediculus Humanus Capitis (Head Lice) within the student population. This includes both treatment and notification of parent/guardian of the student.

6) Will this proposed rule (amendment, repealer) contain incorporations by reference? No

7) Does this rulemaking contain an automatic repeal date?
___ Yes _X_ No

8) Does this rule (amendment, repealer) contain incorporations by reference? No

9) Are there any amendments pending on this Part? No

Section Numbers	Proposed Action	Illinois Register Citation

10) Statement of Statewide Policy Objectives (if applicable):
This is not applicable to this Rulemaking.

11) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Interested persons may present their comments concerning these rules within 45 days after this issue of the Illinois Register. All requests and comments should be submitted in writing to:

Ms. Susan Warrner, Manager
Regulations and Procedures Division
Department of Rehabilitation Services

DEPARTMENT OF REHABILITATION SERVICES

NOTICE OF PROPOSED AMENDMENTS

P.O. Box 19429
Springfield, Illinois 62794-9429

Telephone number: (217) 785-3896
T.D.D./T.T.: (217) 785-9301

If because of physical disability you are unable to put comments into writing, you may make them orally to the person listed above.

12) Initial Regulatory Flexibility Analysis: The Department has determined that this rulemaking will not affect small businesses.

The full text of Proposed Rule(s) begins on the next page:

DEPARTMENT OF REHABILITATION SERVICES

NOTICE OF PROPOSED AMENDMENT

TITLE 89: SOCIAL SERVICES
CHAPTER IV: DEPARTMENT OF REHABILITATION SERVICES
SUBCHAPTER f: EDUCATIONAL FACILITIES

PART 830
NON-ACADEMIC PROGRAMS AND POLICIES

Section
830.10 The Taking and Using of Students' Photographs
830.20 Needy Student Fund
830.30 Student Trust Fund
830.35 Student Activity Fees
830.40 Valuables
830.50 Health Services
830.60 Search and Seizure
830.70 Rights and Responsibilities of School Staff
830.80 Food and Nutrition
830.90 Safety and Sanitation
830.100 Donations
830.110 Release of Students to Authorized Individuals
830.120 Use of Motor Vehicles by Students
830.130 Student Activities Requiring Approval of Parents/Guardians
830.140 Visits to Schools

AUTHORITY: Implementing Sections 10 and 11 and authorized by Section 3(f) of the Disabled Person's Rehabilitation Act (Ill. Rev. Stat. 1991, ch. 23, pars. 3441, 3442, and 3434(f)).

SOURCE: Adopted at 11 Ill. Reg. 15097, effective September 16, 1987; amended at 12 Ill. Reg. 14304, effective August 29, 1988; amended at 15 Ill. Reg. 6272, effective April 15, 1991, amended at 15 Ill. Reg. 17370, effective November 19, 1991; amended at 16 Ill. Reg. _____, effective _____.

Section 830.50 Health Services

a) The Illinois Children's School and Rehabilitation Center (ICSRC) provides comprehensive medical, nursing, physical therapy, occupational therapy and nutrition services, complete with both prescription and non-prescription medications, supplies and devices for its students.

b) The Illinois School for the Deaf (ISD) and the Illinois School for the Visually Impaired (ISVI) provide part-time physicians, full-time nurses, such basics as

DEPARTMENT OF REHABILITATION SERVICES

NOTICE OF PROPOSED AMENDMENT

cough medicine, bandages, and cotton swabs, and services of occupational and physical therapists to handle the health and treatment programs for their students. In addition, a seven day a week infirmary is provided at ISD to serve the students of ISD and ISVI who are too ill to stay in the dormitory, but not ill enough to require hospitalization.

c) Each school will provide assistance to parents in locating sources of, or arranging for, needed medical services which are beyond those described in subsections (a) or (b), providing there is a clear understanding that the school will not pay or be responsible for such services.

d) If a student receives medical treatment other than that prescribed by school health officials, the parents/guardian must inform school staff of such treatment and provide written medical information pertinent to that treatment.

e) Each school shall comply with Section 27-8.1 of The School Code (Ill. Rev. Stat. 1989, ch. 122, par. 27-8.1) in matters pertaining to immunization of its students. In addition, at the direction of the school's physician and superintendent, authorized medical staff at the school shall immunize students for communicable diseases provided:

1) the Illinois Department of Public Health, (DPH) recommended the immunization due to a time limitation or unusual situation;

2) the local public health agency provides the vaccine at no cost to the school or the superintendent determines, in consultation with the school physician, an emergency situation exists and the need is so urgent that the vaccine should be purchased from school funds; and

3) the parents have given their consent, if the student is under 18 years of age, or the student has given his or her consent, if the student is 18 years old or older.

f) HIV Testing. In compliance with the AIDS Confidentiality Act (Ill. Rev. Stat. 1989, ch. 111 1/2,

DEPARTMENT OF REHABILITATION SERVICES

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par. 7301 et seq.) (AIDS Act) and rules of the DPH (77 Ill. Adm. Code 697), a student may not be tested for human immunodeficiency virus (HIV) unless:

1) the student or legally authorized representative consents in writing, or

2) a DORS' school employee has had an accidental direct skin or mucous membrane contact with the student's blood or body fluids which is of a nature that may transmit HIV, as determined by a physician in his or her medical judgement.

3) Test Information and Counseling. In compliance with the AIDS ~~Confidentiality~~ Act ~~(AIDS Act)~~ (Ill. Rev. Stat. 1989, ch. 111 1/2, par. 7305) if an HIV test is ordered by a school physician, whether or not written, informed consent of the student or legally authorized representative has been given, the physician must provide the student with information, including:

   A) the meaning of test results;

   B) additional or confirmatory testing, when appropriate; and

   C) referrals for further information or counseling.

4) Disclosure of test results. The person performing the test shall only disclose results to the following people, who shall not redisclose the results, except as authorized by the AIDS Act:

   A) The student or his or her legally authorized representative;

   B) Anyone designated in an express release executed by the student or legally authorized representative;

   C) The school employee who has had accidental contact as described in subsection (f) (2) above;

DEPARTMENT OF REHABILITATION SERVICES

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   D) The DPH (any redisclosure by a DPH employee in violation of the AIDS Act will result in disciplinary action taken by DPH); and

   E) An employee of the school if he or she provides the student with medical services or such care as may involve contact with blood or body fluids of a student and the employee has a need to know such information (e.g., an employee has been involved in accidental direct skin or mucous membrane contact with the blood or bodily fluids of an individual with AIDS). Any redisclosure by a DORS' employee in violation of the AIDS Act will result in disciplinary action taken by DORS.

g) In compliance with ~~"AN ACT in relation to the prevention of certain communicable diseases,"~~ the Communicable Disease Prevention Act (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 22.12a) the DPH or local public health department shall inform the facility administrator that a student has been diagnosed as having AIDS or AIDS-related complex or has been exposed to HIV. The facility administrator shall not disclose such information except to the following (who shall not redisclose the results except as authorized by the AIDS Act) and then only if the facility administrator then finds it necessary for the safe and effective administration of the school and its programs:

   1) The principal of the DORS school;

   2) The teachers in whose classes the student is enrolled;

   3) The Infectious Disease Control Committee (i.e. facility administrator, head nurse and facility physician)

   4) The school nurse; and

   5) Any other person that the facility administrator deems has a need to know, who has been involved in an accidental direct skin or mucous membrane contact with the blood or bodily fluids of an individual with AIDS, but the student's identity cannot be revealed.

h) Each school will adhere to a consistent policy with regard to a diagnosis of Pediculus Humanus Capitis (head lice) by the school physician or nurse when discovered in the student population.

1. Residential students will be treated by the Nurse applying a 1% Permethrin cream rinse the first available time the day the head lice is discovered. Parents/Guardians will be contacted advising them their child has been treated by the nursing staff for head lice.

2. Non-residential students will have a phone call made to the affected student's parents/guardian informing them of the diagnosis of head lice, and that the student must be removed from school as soon as possible. The recommendation will be made to seek treatment from a physician and that all household members be treated. They will be informed that the student will not be allowed to return to school until treatment has been completed.

   In the event a parent of a non-residential student cannot be contacted within a two hour time frame, the school nurse will treat the student to facilitate returning the student to the school classroom until the parent is contacted. If the clothing of a non-residential student is infested temporary clothing will be issued while the student's clothes are being laundered.

3. All roommates and classmates will be evaluated for the presence of nits (lice eggs) or other evidence of infestation by the school nurse.

4. Residential students will not be allowed to return to school until they have been treated by the nursing staff. Non-residential students must present proof of appropriate treatment (e.g., note from physician, copy of prescription, proof of purchase of an over the counter product for the treatment of head lice) before returning to school. Upon return to school the student will be re-examined by the nurse prior to admission.

5. The nursing staff will again examine the affected student in 7 to 10 days.

6. All potentially infected environmental surfaces and clothing of residential students that could have been infected will be treated by the facility staff to prevent re-infection of the student population.

(Source: Amended at 16 Ill. Reg. ____, effective _____).

DEPARTMENT ON AGING

NOTICE OF ADOPTED AMENDMENTS

1) Heading of the Part: Community Care Program

2) Code Citation: 89 Ill. Adm. Code 240

3) Section Numbers: Adopted Action:

240.400	Amendment
240.415	Amendment
240.451	New Section
240.720	Repealed
240.725	Repealed
240.726	Repealed
240.727	New Section
240.728	New Section
240.800	Amendment
240.810	Amendment
240.825	Amendment
240.855	Amendment

4) Statutory Authority: Ill. Rev. Stat. 1991, Ch. 23, Sections 6104.01(4), (9), (11), and (12); 6104.02, 6104.03, and 6105.02

5) Effective Date of Amendments: November 27, 1992

6) Does this rulemaking contain an automatic repeal date?
____Yes _X_No

7) Do these amendments contain incorporations by reference? No

8) Date Filed in Agency's Principal Office: November 23, 1992

9) Notice of Proposal Published in Illinois Register:

July 17, 1992: 16 Ill. Reg. 11363
(issue date)

10) Has JCAR issued a Statement of Objections to these amendments? No

11) Differences between proposal and final version:

The following changes have been made between proposal and final version of this rulemaking:

Section 240.400:

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the word "vendor" immediately following the words "or a" has been deleted and the word "provider" has been added and inserted in its place.

Section 240.415:

the word "vendors" immediately following "(CCUs)," has been deleted and the word "providers" has been added and inserted in its place.

Subsection 240.415(h):

the word "Vendor" immediately following the word "Program" has been deleted and the word "Provider" has been added and inserted in its place.

Subsection 240.415(i):

the word "vendor" immediately following the words "uphold a" has been deleted and the word "provider" has been added and inserted in its place.

Subsection 240.415(j):

the word "vendor" immediately following the word "authorized" has been deleted and the word "provider" has been added and inserted in its place.

Subsection 240.415(l):

the word "vendor" immediately following the word "or" has been deleted and the word "provider" has been added and inserted in its place.

Section 240.728:

the word "vendors" immediately following "(CCP)" has been deleted and the word "providers" has been added and inserted in its place.

Section 240.855:

the title "Applicant/Client Expense for Care" has been added and inserted following the Section number.

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Subsection 240.855(a):

the word "vendor" immediately following the words "to the" has been deleted and the word "provider" has been added and inserted in its place.

Subsection 240.855(a)(2):

the word "vendor" immediately following the words "to the" has been deleted and the word "provider" has been added and inserted in its place.

TABLE OF CONTENTS:

Section 240.729:

"Maximum Payment Levels for Adult Day Care Service" has been added under EMERGENCY rulemaking.

Subpart P: Vendor Procurement:

the word "Vendor" has been deleted and the word "Provider" has been added and inserted in its place.

Section 240.1600:

the Section title "Vendor Procurement" has been deleted and "Provider Contract" has been added and inserted in its place.

Section 240.1605:

the word "Vendor" in the Section title has been deleted and the word "Provider" has been added and inserted in its place.

Section 240.1610:

the words "for Provider Services" has been added and inserted immediately following the word "Cycle" in the Section title.

Section 240.1620:

the words "Request for" and "Vendor" have been

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deleted; the word "Provider" has been added and inserted immediately following the word "of"; and, the words "and Guidelines" have been added and inserted immediately following the word "Proposal".

Section 240.1625:

the words "Request for" and "Vendor" have been deleted; the word "Provider" has been added and inserted immediately following the word "of"; and, the words "and Guidelines" have been added and inserted immediately following the word "Proposal".

Section 240.1630:

the words "Chore-Housekeeping and Homemaker Vendor" in the Section title have been deleted and the word "Provider" has been added and inserted in their place.

Section 240.1635:

the word "Vendor" in the Section title has been deleted and the word "Provider" has been added and inserted in its place.

Section 240.1640:

the words "Determination and" have been added and inserted immediately before the word "Notification" in the Section title and the word "Vendor" has been deleted and the word "Provider" has been added and inserted in its place.

Section 240.1645:

the words "Protest or" and "Vendor Request for Proposal Award Determination" have been deleted in the Section title and the words "Procurement Action" have been added and inserted immediately following the word "to".

Section 240.1650:

the Section title "Failure to Maintain Vendor

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Compliance to Contract" has been deleted and the title "Classification of Provider Service Violations" has been added and inserted in its place.

Section 240.1655:

the words "Type I, II and III Vendor" have been deleted in the Section title and the words "Provider Service" have been added and inserted in their place.

Section 240.1660:

the Section title "Vendor Compliance During Contract Period" has been deleted and the title "Compliance Reviews of Contracted Provider Agencies" has been added and inserted in its place.

Section 240.1661:

"Provider Right to Appeal" has been added.

MAIN SOURCE NOTE:

the main source note has been updated after the "16 Ill. Reg. 4069, effective February 28, 1992, to expire June 30, 1992" entry to include: "amended at 16 Ill. Reg. 11403, effective June 30, 1992; emergency amendments at 16 Ill. Reg. 11625, effective July 1, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 11731, effective June 30, 1992; emergency added at 16 Ill. Reg. 12615, effective July 23, 1992, for a maximum of 150 days; modified at 16 Ill. Reg. 16680; amended at 16 Ill. Reg. 14565, effective September 8, 1992; amended at 16 Ill. Reg. _____, effective November 27, 1992."

12) Have all changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? Yes

13) Will these amendments replace emergency amendments currently in effect? Yes

14) Are there any proposed amendments pending on this Part? Yes

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Section Numbers:	Proposed Action:	Illinois Register:
240.729	New Section	16 Ill.Reg. 12251
240.1510	Amendment	16 Ill.Reg. 15203
240.1520	Amendment	16 Ill.Reg. 15203
240.1530	Amendment	16 Ill.Reg. 15203
240.1535	Amendment	16 Ill.Reg. 15203
240.1540	Amendment	16 Ill.Reg. 15203
240.1545	Amendment	16 Ill.Reg. 15203
240.1550	Amendment	16 Ill.Reg. 15203
240.1555	Amendment	16 Ill.Reg. 15203
240.1560	Amendment	16 Ill.Reg. 15203
240.1565	Amendment	16 Ill.Reg. 15203
240.1570	Amendment	16 Ill.Reg. 15203
240.1575	Amendment	16 Ill.Reg. 15203
240.1580	Amendment	16 Ill.Reg. 15203
240.1590	Amendment	16 Ill.Reg. 15203
240.1800	Amendment	16 Ill.Reg. 15203
240.1850	Amendment	16 Ill.Reg. 15203
240.2020	Amendment	16 Ill.Reg. 15203
240.2050	Amendment	16 Ill.Reg. 15203

15) Summary and Purpose of Amendments:

These amendments incorporate changes which will allow the Department not to be required to reinstate grandfathered clients, not to reinstate prior service maximum levels and to afford each applicant/client their applicable and appropriate appeal rights in accordance with Departmental rule requirements and statutory mandates, thereby ensuring that the limited appropriated resources of the Community Care Program are distributed equitably and distributed most specifically to those elderly in the greatest economic and social need.

16) Information and questions regarding these adopted amendments shall be directed to:

Name: Mary J. Mayes
Policy and Rules Analyst
Address: Illinois Department on Aging
421 East Capitol Avenue
Springfield, IL 62701
Telephone: (217) 782-4842

The full text of the Adopted Amendments begins on the next page:

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TITLE 89: SOCIAL SERVICES
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AUTHORITY: Implementing Section 4.02 and authorized by Section 4.01(1) of the Illinois Act on the Aging (Ill. Rev. Stat. 1991, ch. 23, pars. 6104.02 and 6104.01(1)).

SOURCE: Emergency rules adopted at 4 Ill. Reg. 1, p. 67, effective December 20, 1979, for a maximum of 150 days; adopted at 4 Ill. Reg. 17, p. 151, effective April 25, 1980; amended at 4 Ill. Reg. 43, p. 86, effective October 15, 1980; emergency amendments at 5 Ill. Reg. 1900, effective February 18, 1981, for a maximum of 150 days; amended at 5 Ill. Reg. 12090, effective October 26, 1981; emergency amendments at 6 Ill. Reg. 8455, effective July 6, 1982, for a maximum of 150 days; amended at 6 Ill. Reg. 14953, effective

December 1, 1982; amended at 7 Ill. Reg. 8697, effective July 20, 1983; codified at 8 Ill. Reg. 2633; amended at 9 Ill. Reg. 1739, effective January 29, 1985; amended at 9 Ill. Reg. 10208, effective July 1, 1985; emergency amendments at 9 Ill. Reg. 14011, effective August 29, 1985, for a maximum of 150 days; amended at 10 Ill. Reg. 5076, effective March 15, 1986; recodified at 12 Ill. Reg. 7980; amended at 13 Ill. Reg. 11193, effective July 1, 1989; emergency amendments at 13 Ill. Reg. 13638, effective August 18, 1989, for a maximum of 150 days; amended at 13 Ill. Reg. 17327, effective November 1, 1989; amended at 14 Ill. Reg. 1233, effective January 12, 1990; amended at 14 Ill. Reg. 10732, effective July 1, 1990; emergency amendments at 15 Ill. Reg. 2838 effective, February 1, 1991 for a maximum of 150 days; amended at 15 Ill. Reg. 10351, effective July 1, 1991; emergency amendments at 15 Ill. Reg. 14593, effective October 1, 1991, for a maximum of 150 days; emergency amendments at 15 Ill. Reg. 17398, effective November 15, 1991, for a maximum of 150 days; amended at 15 Ill. Reg. 18568, effective December 13, 1991; emergency amendments suspended at 16 Ill. Reg. 1744; emergency amendments at 16 Ill. Reg. 2630 effective February 1, 1992, for a maximum of 150 days; emergency amendments modified and reinstated at 16 Ill. Reg. 2943; emergency amendments at 16 Ill. Reg. 2901, effective February 6, 1992, to expire June 30, 1992; emergency amendments at 16 Ill. Reg. 4069, effective February 28, 1992, to expire June 30, 1992; amended at 16 Ill. Reg. 11403, effective June 30, 1992; emergency amendments at 16 Ill. Reg. 11625, effective July 1, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 11731, effective June 30, 1992; emergency added at 16 Ill. Reg. 12615, effective July 23, 1992, for a maximum of 150 days; modified at 16 Ill. Reg. 16680; amended at 16 Ill. Reg. 14565, effective September 8, 1992; amended at 16 Ill. Reg. 18767, effective November 27, 1992.

NOTE: Bold faced type denotes statutory language.

SUBPART D: APPEALS

Section 240.400 Appeals and Fair Hearings

a) Any individual who applies for or receives Community Care Program (CCP) services of any kind has the right to appeal a decision, action or inaction of the Department, a Case Coordination Unit (CCU) or a provider~~vendor~~. If the decision, action or inaction is based on an automatic change in eligibility, rates or benefits required by Federal or State law which adversely affects some or all clients, the appeal will be automatically denied and the

individual will not be afforded a hearing. The applicant/client/authorized representative shall be notified of his/her right to appeal by the CCU at the time the applicant/client/authorized representative is notified of the action taken. The individual shall be given an explanation of the right to appeal at the time of the initial home visit and upon request. A copy of the rights and responsibilities of a CCP applicant/client (including an explanation of the right to appeal) shall be provided in written format to all applicants/clients/authorized representatives during the initial home visit for determination of eligibility and upon request.

b) It shall be the responsibility of the applicant/client/authorized representative to advise the Department of his/her intent to appeal.

c) The effective date of the appeal is the date on which an applicant/client/authorized representative indicates to the Department the intent to appeal either by telephone or in writing.

d) If the Department is advised of the intent to appeal either by letter or by telephone, the Department shall, within ~~two (2)~~ work days, send to the appellant a Notice of Appeal to Department on Aging form to be completed and signed by the appellant/authorized representative.

e) The written notice of appeal must be filed with the Department on a Notice of Appeal to Department on Aging form and shall be completed and executed by the appellant/authorized representative and returned to the Department.

f) The executed Notice of Appeal to Department on Aging form must be submitted to the Department at the following address:

Illinois Department on Aging
Division of Long Term Care
Post Office Box 60
Springfield, Illinois 62705

g) No later than ~~ten (10)~~ work days from the date of receipt of a Notice of Appeal to Department on Aging form, the Department shall acknowledge receipt thereof to the

appellant/authorized representative, and shall send copies of said acknowledgement to all parties to the appeal.

h) The written Notice of Appeal to Department on Aging shall include the following:

1) the name, address and telephone number of the applicant/client filing the appeal, or on whose behalf the appeal is filed; and

2) the name, address, and telephone number of the authorized representative, if any, filing the appeal on behalf of the applicant/client; and

3) the specific action being appealed, including the date of notice advising the applicant/client/authorized representative of the action appealed and the effective date of that action; and

4) the name of the Case Coordination Unit as indicated on the notice of the action being appealed.

i) Effective April 1, 1992, Case Coordination Units are to provide a copy of any notice of adverse action to any applicant's/client's authorized representative, if the client has earned 10 points on the Mini-Mental State Examination (MMSE). If the authorized representative is a family member residing with the client, the single notice to the client will suffice.

(Source: Amended at 16 Ill. Reg. 18767, effective November 27, 1992)

Section 240.415 What May Be Appealed

The following actions of Case Coordination Units (CCUs), providers~~vendors~~, or the Department may be appealed:

a) Refusal to accept an application or reapplication.

b) Failure to act upon an application within the mandated time period, unless delayed in any manner by the applicant/client/authorized representative in the determination of eligibility process.

c) A decision to deny an application or request.

d) Failure to advise prescreened individuals that they have a choice of:

1) nursing home placement; or
2) receiving in-home or community-based services, if eligible; or
3) declining either of the above options.

e) A decision to reduce, terminate or in any way change the Community Care Program services or the manner in which those services are provided. If the decision to reduce, terminate or in any way change CCP services is based on an automatic change in eligibility, rates or benefits required by Federal or State law which adversely affects some or all clients, the appeal will be automatically denied and the individual affected will not be afforded a hearing.

f) A decision to deny a request for redetermination.

g) Failure to make a decision or take appropriate action on any request made by a client within ~~fifteen (15)~~ calendar days from the date of such request.

h) The validity and accuracy of the amount billed to a client by a Community Care Program Provider~~Vendor~~ for the client's incurred expense for care provided.

i) A decision by a CCU to uphold a provider~~vendor~~ decision with which the applicant/client does not agree.

j) Failure to advise the applicant/client of his/her right to choose a Department authorized provider~~vendor~~ in the service area of the applicant/client to provide the services required by the plan of care.

k) Failure of a CCU to advise an applicant/client or any of his/her rights under the Community Care Program.

l) Failure of a CCU or provider~~vendor~~ to comply with Community Care Program rules.

(Source: Amended at 16 Ill. Reg. 18767, effective November 27, 1992)

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Section 240.451 Conduct of Hearing

The hearing may be conducted with some or all parties, including the hearing officer, present at different locations connected with each other by telephone.

(Source: Added at 16 Ill. Reg. 18767, effective November 27, 1992)

Section 240.720 Clients Prior to Effective Date of This Section (Repealed)

~~Individuals whose eligibility for the Community Care Program (CCP) was determined prior to the effective date of this Section and who have been continuously served since determination of initial eligibility shall have their need for long term care established by receipt of the following scores on the Determination of Need:~~

~~a) Individuals having a combined score on Part A and Part B from zero through twenty eight points, or who have twenty nine or more points overall but fail to receive at least fifteen points on Part A shall be eligible for services costing no less than $1 and not to exceed $160 monthly;~~

~~b) Individuals having a combined score on Part A and Part B of twenty nine points or more with a minimum of fifteen points on Part A shall have their need for long term care established in accordance with Section 240.725.~~

(Source: Repealed at 16 Ill. Reg. 18767, effective November 27, 1992)

Section 240.725 Clients After Effective Date of This Section (Repealed)

~~Individuals whose eligibility for the Community Care Program (CCP) is determined on or after the effective date of this Section shall have their need for long term care established by receipt of a minimum score to twenty nine points fifteen of which must be scored in Part A, Level of Impairment, of the Determination of Need.~~

~~a) Individuals scoring from 29 thru 32 points shall be eligible for services costing no less than $1 and not to exceed $464 monthly.~~

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~~b) Individuals scoring from 33 thru 45 points shall be eligible for services costing no less than $1 and not to exceed $580 monthly.~~

~~c) Individuals scoring from 46 thru 56 points shall be eligible for services costing no less than $1 and not to exceed $690 monthly.~~

~~d) Individuals scoring from 57 thru 67 points shall be eligible for services costing no less than $1 and not to exceed $880 monthly.~~

~~e) Individuals scoring from 68 thru 78 points shall be eligible for services costing no less than $1 and not to exceed $1020 monthly.~~

~~f) Individuals scoring from 79 thru 87 points shall be eligible for services costing no less than $1 and not to exceed $1200 monthly.~~

~~g) Individuals scoring from 88 thru 100 points shall be eligible for services costing no less than $1 and not to exceed $1400 monthly.~~

(Source: Repealed at 16 Ill. Reg. 18767, effective November 27, 1992)

240.726 Emergency Budget Act Reduction (Repealed)

~~Effective with the delivery of services beginning March 1, 1992 through June 30, 1992, all plans of care for Community Care Program clients shall be reduced at a rate of one unit of service for every $270 of monthly delivered in home services as specified in the following chart:~~

~~Delivered Service Amount~~		~~Unit(s) Reduced~~
~~$ 1~~	~~135~~	~~.5~~
~~136~~	~~270~~	~~1.0~~
~~271~~	~~405~~	~~1.5~~
~~406~~	~~540~~	~~2.0~~
~~541~~	~~675~~	~~2.5~~
~~676~~	~~810~~	~~3.0~~
~~811~~	~~945~~	~~3.5~~

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~~946 1080 4.0~~
~~1081 1215 4.5~~
~~1216 1350 5.0~~
~~1351 Max. 5.5~~

(Source: Repealed at 16 Ill. Reg. 18767, effective November 27, 1992)

Section 240.727 Minimum Score Requirements

Individuals determined eligible to receive Community Care Program (CCP) services shall have their need for long term care established by receipt of a minimum score of 29 points on the Determination of Need, 15 of which must be scored on Total Impairment, which includes Part A and the Mini-Mental State Examination (refer to Section 240.715).

(Source: Added at 16 Ill. Reg. 18767, effective November 27, 1992)

Section 240.728 Maximum Payment Levels for Service

Maximum monthly service dollars are calculated according to the applicant's/client's total Determination of Need score. These maximum monthly service dollars will be adjusted by the Department to be consistent with any future unit rate adjustments for Community Care Program (CCP) providers~~vendors~~.

a) Individuals scoring from 29 thru 32 points shall be eligible for services costing not less than $1 and not to exceed $190 monthly.

b) Individuals scoring from 33 thru 36 points shall be eligible for services costing no less than $1 and not to exceed $300 monthly.

c) Individuals scoring from 37 thru 45 points shall be eligible for services costing no less than $1 and not to exceed $480 monthly.

d) Individuals scoring from 46 thru 56 points shall be eligible for services costing no less than $1 and not to exceed $600 monthly.

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e) Individuals scoring from 57 thru 67 points shall be eligible for services costing no less than $1 and not to exceed $700 monthly.

f) Individuals scoring from 68 thru 78 points shall be eligible for services costing no less than $1 and not to exceed $910 monthly.

g) Individuals scoring from 79 thru 87 points shall be eligible for services costing no less than $1 and not to exceed $1240 monthly.

h) Individuals scoring from 88 thru 100 points shall be eligible for services costing no less than $1 and not to exceed $1445 monthly.

(Source: Added at 16 Ill. Reg. 18767, effective November 27, 1992)

SUBPART H: FINANCIAL REQUIREMENTS

Section 240.800 Financial Factors

a) ~~The requirements of Section 240.810 through 240.875 are not applicable to those individuals determined eligible prior to July 1, 1983, and who have had continuous service since that time. However,~~ All clients of the Community Care Program are required to provide information relative to the value and types of assets owned.

b) ~~The requirements of Sections 240.825 through 240.875 are not applicable to those individuals determined eligible prior to July 6, 1982, and who have had continuous service since that time. However,~~ All clients of the Community Care Program are required to provide information relative to the amount and source of all income.

(Source: Amended at 16 Ill. Reg. 18767, effective November 27, 1992)

Section 240.810 Assets

a) To be eligible to receive Community Care Program (CCP) services, an applicant/client shall not own non-exempt

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assets having a combined value in excess of $10,000. ~~(Refer to Section 240.800.)~~

b) The value of non-exempt assets shall be considered in determining eligibility for the Community Care Program.

c) All assets not specifically exempt are non-exempt.

d) When a client's non-exempt assets are greater than the allowable disregard (i.e., $10,000 non-exempt assets), consideration of non-liquid assets may be deferred as follows:

1) real property may be deferred from consideration for ~~six (6)~~ months;

2) the client shall sign an agreement to dispose of the real property in excess of the allowable disregard within ~~six (6)~~ months from the date of the agreement; and

3) the ~~six (6)~~ month period for disposition may be extended an additional ~~six (6)~~ months if the client fails to dispose of the asset (through no fault of his/her own) despite reasonable and diligent effort.

(Source: Amended at 16 Ill. Reg. 18767, effective November 27, 1992)

Section 240.825 Income

a) Documentation of all currently available income which is not specified as exempt shall be provided during the applicant's/client's determination of eligibility for the Community Care Program. ~~(Refer to Section 240.800.)~~

b) The first $25.00 of a client's earned or unearned income (other than Supplemental Security Income (SSI) or contributions from a spouse or other individual) is exempt from consideration in determining eligibility. A client is eligible for only one $25.00 exemption regardless of the types of sources or earned or unearned income.

(Source: Amended at 16 Ill. Reg. 18767, effective November 27, 1992)

DEPARTMENT ON AGING

NOTICE OF ADOPTED AMENDMENTS

Section 240.855 Applicant/Client Expense for Care

The requirements of Section 240.855 are ~~not~~ applicable to all CCP clients~~, those individuals determined eligible prior to July 6, 1982, and who have had continuous service since that time. Continuous service is defined as service which has not been terminated for any of the reasons specified in Section 240.950~~.

a) An eligible applicant/client of the Community Care Program (CCP) or the applicant's/client's authorized representative shall sign the Client Agreement - Plan of Care agreeing to pay a portion of all income in excess of the federal poverty level to the provider~~vendor~~ for expense to be incurred monthly for care.

1) Adjustments in the federal poverty level shall be made annually and shall become effective the first day of each State fiscal year.

2) Client payments to the provider~~vendor~~ shall not exceed the client's monthly incurred expense for care.

b) Refusal by the eligible applicant/authorized representative to sign the required Client Agreement - Plan of Care for payment of the expense to be incurred monthly for care shall result in denial of the application.

c) Refusal by the client/authorized representative to sign the required Client Agreement - Plan of Care for payment of the expense to be incurred monthly for care shall result in termination of CCP services.

(Source: Amended at 16 Ill. Reg. 18767, effective November 27, 1992)

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NOTICE OF ADOPTED AMENDMENTS

1) The Heading of the Part: Certification

2) Code Citation: 23 Ill. Adm. Code 25

3)

Section Number:	Adopted Action:
25.120	Amendment
25.220	Amendment

4) Statutory Authority: Ill. Rev. Stat. 1991, ch. 2-3.6 and pars. 21-1 et seq.

5) Effective Date of Amendments:

6) Does this rulemaking contain an automatic repeal date? No

7) Does this amendment contain incorporations by reference? The rules do not contain an incorporation by reference under Section 5-75 of the Illinois Administrative Procedure Act.

8) Date Filed in Agency's Principal Office: November 6, 1992

9) Notice of Proposal Published in Illinois Register:

June 19, 1992, 16 Ill. Reg. 9234

10) Has JCAR issued a Statement of Objections to this (these) rule(s)? No

11) Difference(s) between proposal and final version:

No changes were requested during the public comment period or by JCAR.

12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? No changes were requested by JCAR.

13) Will this amendment replace an emergency amendment currently in effect? No

14) Are there any amendments pending on this Part? No

15) Summary and Purpose of Amendment:

The present set of amendments contains two changes, as follows:

One of the standards applicable to approval of teacher preparation institutions is being revised to include a requirement for procedures designed to attract students from diverse economic, racial, and cultural backgrounds.

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NOTICE OF ADOPTED AMENDMENTS

Language is being added to Section 25.120(a)(2)(A) (Standards and Criteria for Institutional Recognition and Program Approval) to convey this new requirement.

Section 25.220 contains new subsections setting forth requirements for guidance specialists which will go into effect on September 1, 1993. The new language describes in detail the coursework and supervised experiences which will be required of candidates after that time.

16) Information and questions regarding this adopted amendment shall be directed to:

Name: Susan K. Bentz
Address: Illinois State Board of Education
100 North First Street
Springfield, Illinois 62777-0001
Telephone: (217) 782-3774

The full text of the Adopted Amendments begins on the next page:

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NOTICE OF ADOPTED AMENDMENTS

TITLE 23: EDUCATION AND CULTURAL RESOURCES
SUBTITLE A: EDUCATION
CHAPTER I: STATE BOARD OF EDUCATION
SUBCHAPTER b: PERSONNEL

PART 25
CERTIFICATION

SUBPART A: DEFINITIONS

Section
25.10 Definition of Terms Used in This Part

SUBPART B: CERTIFICATES

Section
25.20 State Elementary School Certificate
25.30 State High School Certificate
25.40 State Special Certificate
25.43 Standards for Certification of Special Education Teachers
25.45 Standards for the Standard Special Certificate--Speech and Language Impaired
25.50 General Certificate
25.60 State Special Certificate, Grades 11-12, For Teaching Elective Subjects
25.70 State Provisional Vocational Certificate
25.80 Early Childhood Certificates
25.90 Transitional Bilingual Certificate and Examination
25.95 Majors, Minors, and Separate Fields for the Illinois High School Certificate
25.99 Endorsing Teaching Certificates

SUBPART C: APPROVING THE TEACHER EDUCATION PROGRAMS OF THE TEACHER EDUCATION INSTITUTIONS OF THE STATE OF ILLINOIS

Section
25.110 System of Approval: Levels of Approval
25.120 Standards and Criteria for Institutional Recognition and Program Approval
25.130 Procedures for Initial Recognition as a Teacher Education Institution
25.140 Procedures for Approval of New or Modified Teacher Education Programs and Consortia
25.150 The Periodic Review Process

SUBPART D: SCHOOL SERVICE PERSONNEL

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Section
25.210 Requirements for the Certification of School Social Workers
25.220 Requirements for the Certification of Guidance Personnel
25.230 Requirements for the Certification of School Psychologists
25.240 Standard for School Nurse Endorsement

SUBPART E: REQUIREMENTS FOR THE CERTIFICATION OF ADMINISTRATIVE AND SUPERVISORY POSITIONS

Section
25.310 Definitions (Repealed)
25.311 Administrative Certificate
25.315 Renewal of Administrative Certificate
25.320 Application for Approval of Program (Repealed)
25.322 General Supervisory Endorsement
25.330 Standards and Guide for Approved Programs (Repealed)
25.333 General Administrative Endorsement
25.344 Chief School Business Official Endorsement
25.355 Superintendent

SUBPART F: GENERAL PROVISIONS

Section
25.405 Military Service
25.410 Revoked Certificates
25.415 Credit in Junior College
25.420 Psychology Accepted as Professional Education
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25.427 Three-Year Limitation
25.430 Institutional Approval
25.435 School Service Personnel Certificate--Waiver of Evaluations
25.440 Master of Arts NCATE
25.445 College Credit for High School Mathematics and Language Courses
25.450 Lapsed Certificates
25.455 Substitute Certificates
25.460 Provisional Special and Provisional High School Certificates
25.465 Credit
25.470 Meaning of Experience on Administrative Certificates
25.475 Certificates and Permits No Longer Issued
25.480 Credit for Certification Purposes
25.485 Provisional Recognition of Institutions
25.490 Rules for Certification of Persons Who Have Been Convicted of a Crime

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25.493 Part-Time Teaching Interns
25.495 Approval of Out-of-State Institutions and Programs
25.497 Supervisory Endorsements

SUBPART G: THE UTILIZATION OF TEACHER AIDES AND OTHER NONCERTIFIED PERSONNEL

Section
25.510 Teacher Aides
25.520 Other Noncertificated Personnel
25.530 Specialized Instruction by Noncertificated Personnel
25.540 Approved Teacher Aide Programs

SUBPART H: CLINICAL EXPERIENCES

Section
25.610 Definitions
25.620 Student Teaching
25.630 Pay for Student Teaching

SUBPART I: ILLINOIS CERTIFICATION TESTING SYSTEM

Section
25.705 Purpose - Severability
25.710 Definitions
25.715 Test Validation
25.717 Test Equivalence
25.720 Applicability of Testing Requirement
25.725 Applicability of Scores
25.730 Registration
25.732 Late Registration
25.735 Frequency and Location of Examination
25.740 Accommodation of Persons with Special Needs
25.745 Special Test Dates
25.750 Conditions of Testing
25.755 Voiding of Scores
25.760 Passing Score
25.765 Individual Test Score Reports
25.770 Rescoring
25.775 Institution Test Score Reports
25.780 Fees

25.Appendix A Statistical Test Equating - Certification Testing System

AUTHORITY: Implementing Article 21 and Section 14C-8 and authorized by Section 2-3.6 of the School Code (Ill. Rev. Stat. 1991, ch. 122, pars. 21-1 et seq., 14C-8, and 2-3.6).

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SOURCE: Rules and Regulations to Govern the Certification of Teachers adopted September 15, 1977; amended at 4 Ill. Reg. 28, p. 336, effective July 16, 1982; amended at 7 Ill. Reg. 5429, effective April 11, 1983; codified at 8 Ill. Reg. 1441; amended at 9 Ill. Reg. 1046, effective January 16, 1985; amended at 10 Ill. Reg. 12578, effective July 8, 1986; amended at 10 Ill. Reg. 15044, effective August 28, 1986; amended at 11 Ill. Reg. 12670, effective July 15, 1987; amended at 12 Ill. Reg. 3709, effective February 1, 1988; amended at 12 Ill. Reg. 16022, effective September 23, 1988; amended at 14 Ill. Reg. 1243, effective January 8, 1990; amended at 14 Ill. Reg. 17936, effective October 18, 1990; amended at 15 Ill. Reg. 17048, effective November 13, 1991; amended at 16 Ill. Reg. 18789, effective November 23, 1992

NOTE: Capitalization denotes statutory language.

SUBPART C: APPROVING THE TEACHER EDUCATION PROGRAMS OF THE TEACHER EDUCATION INSTITUTIONS OF THE STATE OF ILLINOIS

Section 25.120 Standards and Criteria for Institutional Recognition and Program Approval

a) Standards for Recognition of Institutions

Only those institutions which evidence and subsequently maintain sufficient compliance with the following standards will be recognized as teacher education institutions.

1) Institutional Support for Teacher Education Programs. These standards measure the institution's commitment to sponsoring teacher education programs and its capability to fulfill that commitment for the period of recognition.

A) The institution has articulated a statement of its mission or goals and the mission or goals include and are consistent with the sponsorship of teacher education programs.

B) The institution evidences continuing availability and commitment of fiscal, human, and other resources adequate to conduct approved teacher education programs.

C) The institution has developed and maintains an administrative and policy/development structure which provides the capability to undertake the coordination, planning, and

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evaluation processes necessary to the conduct of teacher education programs.

D) The institution presents documentation of the need for its programs, including an analysis of the available supply of teachers in the subject matter field and/or grade level being proposed.

2) Admissions, Retention, and Recommendation for Certification. The standards under this heading require evidence that the institution has established criteria and procedures for admission, retention, and recommendation for certification. These criteria and procedures must be neutral with respect to personal characteristics or background irrelevant to an individual's successful completion of a program and anticipated success in a certificated role in the Illinois public schools.

A) The institution has established a written recruitment plan detailing the procedures it follows in its efforts to attract students from diverse economic, racial, and cultural backgrounds to the teacher preparation programs. The institution follows written procedures for admitting students to the institution and to teacher preparation programs and undertakes continuous evaluation for retention in the institution and in the program. Such procedures shall minimally include the requirements set forth in Article 21 of ~~The~~ the School Code. The written procedures establish the criteria to be used at the checkpoints of:

i) admission to the institution;

ii) admission to teacher education, including, but not limited to, assessing proficiency in reading, mathematics and language arts;

iii) admission to student teaching; and

iv) at the time of recommendation for certification.

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The criteria used at the second and successive checkpoints shall be more rigorous than those used at the preceding checkpoint.

B) The institution has established and implemented procedures for assessing the candidate's abilities which were acquired prior to admission to the program and for planning the candidate's program in light of that assessment. A candidate evidencing appropriate or required knowledge, skills, and attitudes may qualify for advanced placement or credit by successfully completing appropriate examinations or other assessment procedures as presented by a recognized institution.

C) The institution has not established and does not follow policies or procedures which intentionally or unintentionally discriminate on the basis of race, color, national origin, or irrelevant physical conditions. A coeducational institution shall not have established and does not follow policies or procedures which intentionally or unintentionally discriminate on the basis of sex.

D) The institution provides teacher education candidates with a written copy of students' responsibilities and rights and procedures for enforcing those responsibilities and rights. Causes for grievances shall include, but not be limited to, arbitrary or capricious institutional behavior in regard to:

i) admission to a teacher education program;

ii) admission to the student teaching program or other clinical experience;

iii) dismissal from the institution or from the teacher education program, including clinical or student teaching experiences;

iv) evaluation of the candidate's performance in courses, clinical or student teaching settings, or any other regularly provided or required activity having a direct bearing on the candidate's being recommended for certification or for employment; or

v) failure to recommend the candidate for certification, when required, in a timely fashion.

Such procedures shall allow students to be represented by an attorney.

E) The institution provides evidence of systematic counseling services designed to identify potential teacher education candidates and to provide advice and counsel to those considering enrolling or already admitted into teacher education programs. Such counseling shall include reliable information based on the institution's past experience concerning prospects for employment in the candidate's chosen field.

F) The institution has established written procedures and criteria for determining whether a candidate will be recommended for certification by entitlement.

3) General Features of Teacher Education Programs

These standards assess the institution's general capability to sponsor teacher education programs and its commitment to designing and redesigning teacher education programs responsive to the needs of public education in the State of Illinois.

A) The institution provides, under its control or by contractual arrangement with other approved post-secondary institutions, programs offering balanced and interrelated learning experiences:

i) in the humanities, social sciences, and the natural sciences;

ii) in a subject area(s) taught in Illinois public schools or necessary for preparation to assume supervisory, school service, or administrative roles in Illinois public schools; and

iii) in professional studies and experiences, including clinical experience in school or community settings throughout the preparation period.

iv) Institutions must enter into written agreements with authorities in charge of clinical sites. These agreements must describe the responsibilities of the candidate, the institution, and the clinical site.

v) All clinical experiences must be supervised by qualified personnel.

vi) Student teaching must be conducted under close and competent supervision. The institution must insure that the system of supervision generates enough valid documentation and evidence that a decision regarding a candidate's success, or lack of success, can be made and defended.

B) The institution maintains a learning environment supportive of programs which provide candidates with awareness, appreciation, and knowledge of cultural pluralism and a commitment toward the acquisition of skills on how to work with culturally distinctive students.

C) The institution has established a continuous process for the evaluation of its teacher education programs and graduates. Evidence that the results of this evaluation, together with consultation with school personnel and community persons and groups, are used in the development of new programs and modification of existing programs shall be presented.

b) Criteria for Approval of Programs

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Only those programs evidencing sufficient compliance with the following criteria will be approved. The term "program" refers to a structured sequence of learning activities and experiences which is designed to lead to a specific certificate and endorsement.

1) Relationship of Program to Public School Needs

These criteria measure a specific program's relationship to the needs of public schools generally and those of Illinois public schools particularly.

A) The program provides for acquisition of knowledge, attitudes, and skills necessary for effective performance in specific teaching, supervising, school service or administrative roles.

B) The program is a carefully planned set of experiences designed to develop the capacities and abilities that have been identified as a result of attention to public school needs.

C) The program develops the candidate's understanding and awareness of the unique nature of distinct cultural and ethnic groups as well as the relationships among these groups.

D) The program provides evidence that its faculty has the opportunity to participate directly in elementary and secondary school programs or community service programs and that educational personnel working in the elementary and secondary schools have the opportunity to participate directly in the program in a role other than that of student.

2) The Design of the Program

These criteria require that a program for the preparation of educational personnel demonstrate coherence and integrity.

A) The program has a rationale and related set of objectives which describe the intent of

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the program and which enable evaluation of it.

B) The program includes study of theoretical formulations of learning processes and their pedagogical implications, with emphasis on these implications for the candidate's specialization.

C) The program provides learning experiences enabling candidates to become aware of and responsive to the varied educational needs and the distinct cultural backgrounds of students to the extent practicable. In addition, opportunities shall be available for candidates to acquire and demonstrate abilities to work with students of culturally diverse backgrounds.

D) The program provides systematic procedures for evaluating the candidates' ability to teach, supervise, or administer.

E) The program provides for continuous evaluation, including evaluation of current students and graduates, and for program modifications based on evaluation.

F) The program provides a sound basis for continued study and acquisition of knowledge and skills.

3) Program Resources

These criteria require evidence that sufficient resources are allocated to support the program to insure its being conducted as described.

A) The program is supported by adequate and sufficient faculty, instructional resources, and clinical settings.

B) The program has and is attracting or is realistically expected to attract sufficient students to enable adequate evaluation of the program.

c) Eligibility and Standards for Approval of Consortium Programs

1) A consortium among recognized teacher education institutions in which one or more have an approved program in the area(s) in which the consortium wishes to sponsor programs will be approved upon meeting the following standards:

A) The institution at which the student is enrolled as a teacher education candidate awards the degree and recommends certification.

B) The arrangements are set forth in a written agreement between or among participating institutions with assurance that students enrolled in the consortium-sponsored program, should the institution agree to cease these efforts, will be able to finish the program in a timely fashion.

C) The consortium-sponsored program is the same, or virtually the same, as the approved program.

2) A consortium among recognized teacher education institutions in which none of the institutions has an approved program in the proposed area(s) will be approved upon meeting the following standards:

A) The institution at which the student is enrolled as a teacher education candidate awards the appropriate degree and recommends certification.

B) The proposed program(s) meet(s) the criteria for programs presented heretofore.

C) There exists a written agreement specifying the arrangements for the conduct of the consortium and program and the agreement provides that students enrolled in the program(s) will be allowed to complete the program(s) in a timely fashion should the consortium be disbanded.

3) A consortium among a recognized teacher education institution(s) and another approved post-secondary educational institution(s) or organization(s) not

recognized for purposes of teacher education will be approved upon meeting the following standards:

A) The degree and recommendation for certification are issued by a recognized teacher education institution.

B) The proposed program(s) meet(s) the criteria for approval of programs presented heretofore.

C) The nonrecognized institution or organization has been approved under applicable provisions of Ill. Rev. Stat. ~~1983~~ 1991, ch. 144.

D) There exists a legally enforceable agreement or contract between and among participants in the consortium-sponsored program describing arrangements, responsibilities, and financing of the operations and assuring that students enrolled in the program(s) will be allowed to complete the program in a timely fashion.

(Source: Amended at 16 Ill. Reg. 18789, effective November 23, 1992

SUBPART D: SCHOOL SERVICE PERSONNEL

Section 25.220 Requirements for the Certification of Guidance Personnel

The requirements contained in subsections (a) and (b) of this Section shall remain in force through August 31, 1993. Thereafter, the requirements set forth in subsections (c), (d), and (e) of this Section shall take effect.

a) Requirements:

1) Guidance specialists must hold or be qualified for a standard teaching certificate.

2) Guidance specialists must hold a master's degree.

3) Guidance specialists must have completed an approved program in guidance from a recognized college or university consisting of 32 semester hours of coursework. An approved program shall include supervised school-based practicum experience. Coursework should be from the eight areas of competency listed below. Appropriate

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courses in the areas listed in subsections (A), (B), (C), (D), (E) and (F) below are a minimum requirement. Not more than six semester hours shall be acceptable at the undergraduate level.

A) Principles and techniques of guidance.

B) Appraisal techniques.

C) Human growth and development.

D) Principles and practices in counseling.

E) Occupational, educational, personal and social information.

F) Mental hygiene and/or personality dynamics.

G) Organization of guidance services.

H) Research.

b) All Counselors who presently hold a specialist's certificate would be eligible to obtain a School Service Personnel Certificate with a Guidance Specialist endorsement.

c) Guidance specialists must hold or be qualified for a standard teaching certificate.

d) Guidance specialists must hold a master's degree from a recognized teacher education institution.

e) Guidance specialists must hold a school service personnel certificate based on completion of an approved program in guidance from a recognized college or university, consisting of 39 semester hours of coursework at the graduate level. Courses in all of the following content areas are required, and the required credit hours may be earned through completion of titled courses, seminars, or practica covering the areas described.

1) Human Growth and Development (3 Hours)

Includes studies that provide a broad understanding of the nature and needs of individuals at all developmental levels. Emphasis is placed on psychological, sociological, and

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physiological approaches. Also included are such areas as human behavior (normal and abnormal), personality theory, and learning theory.

2) Social and Cultural Foundations (3 Hours)

Includes studies of change, ethnic groups, subcultures, changing roles of women, sexism, urban and rural societies, population patterns, cultural mores, use of leisure time, and differing life patterns. Such disciplines as the behavioral sciences, economics, and political science are involved.

3) The Helping Relationship (6 Hours)

Includes philosophic bases of helping relationships; counseling theory, supervised practice, and application; consultation theory, supervised practice, and application; and an emphasis on development of counselor and client (or consultee) self-awareness and self-understanding.

4) Groups - (3 Hours)

Includes theory and types of groups as well as descriptions of group practices, methods, dynamics, and facilitative skills. This area also includes supervised practice.

5) Life Style and Career Development (3 Hours)

Includes such areas as vocational choice theory, relationship between career choice and life style, sources of occupational and educational information, computerized guidance services, financial aid, college admissions, approaches to career decision-making processes, and career development exploration techniques.

6) Appraisal of the Individual (3 Hours)

Includes the development of a framework for understanding the individual, including methods of data-gathering and interpretation, individual and group testing, case study approaches, and the study of individual differences. Ethnic,

cultural, and gender-related factors are also considered.

7) Research and Evaluation (3 Hours)

Includes such areas as statistics, research design, and the development of research and demonstration proposals. It also includes understanding legislation relating to the development of research, programs, and demonstration proposals, as well as the development and evaluation of program objectives.

8) Professional Orientation (3 Hours)

Includes goals and objectives of professional organizations, code of ethics, legal considerations, standards of preparation, certification, licensing, and role identity of counselors and other school service personnel.

9) Environmental Studies (6 Hours)

Includes the study of the school environment in which the student is planning to work. This area encompasses history, philosophy, trends, purposes, ethics, legal aspects, standards, and roles within the institution. Issues such as chemical dependency, sexuality, and the effects of single-parent homes and blended families must be covered, as well as the needs of special populations, such as bilingual children or children with physical or mental disabilities.

10) Supervised Experiences (6 Hours)

A) Appropriate supervised experiences provide for the integration and application of knowledge and skills gained in didactic study.

i) Supervised experiences must take place in settings that are compatible with the career goal of becoming a school counselor.

ii) Supervised experiences must include observation and direct work with

individuals and groups within an appropriate work setting.

iii) Supervised experiences must provide opportunities for professional relationships with staff members in the work settings.

B) Supervised experiences must include laboratory, practicum, and internship activities with an appropriate, school-aged population.

C) Laboratory experiences, providing both observation and participation in specific activities, must be offered throughout the preparatory program.

D) At least 3 semester hours must be earned in a supervised counseling practicum providing interaction with individuals and groups of an appropriate, school-aged population. The practicum must include a minimum of 100 clock hours, 40 hours of which must involve direct service work with school-aged children.

E) At least 3 semester hours must be earned in a postpracticum internship that provides an actual on-the-job experience in a school setting. The internship must be a sustained, continuous, structured and supervised experience lasting for a substantial period of time in which the candidate engages in the performance of various aspects of the counseling role and is gradually introduced to the full range of responsibilities associated with that role.

i) The internship shall be waived for an applicant who holds a comparable out-of-state school service personnel certificate and has had two years' experience as a school counselor.

ii) For applicants with less than two years of teaching experience, the internship must include a minimum of 600 clock hours, 240 hours of which must involve

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direct service with an appropriate clientele.

iii) For applicants with two or more years of teaching experience, the internship must include a minimum of 300 clock hours, 200 of which must involve direct service contact with an appropriate clientele.

iv) "Appropriate clientele" means school-aged children, parents, teachers, and other parties interested in students' welfare.

(Source: Amended at 16 Ill. Reg. 18789, effective November 23, 1992)

ILLINOIS HEALTH CARE COST CONTAINMENT COUNCIL

NOTICE OF ADOPTED AMENDMENTS

1) Heading of Part: Council Organization

2) Code Citation: 2 Ill. Adm. Code 2600

3) Section Numbers: Adopted Action:

2600.130 Amendment

4) Statutory Authority: Implementing Article II and authorized by Section 2-3 of Article II of the Illinois Health Finance Reform Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 6502-1 et seq.).

5) Effective Date of Amendments: November 24, 1992

6) Does this rulemaking contain an automatic repeal date? No.

7) Does this amendment contain incorporations by reference? No.

8) Date Filed in Agency's Principal Office: November 24, 1992

9) Notice(s) of Proposal Published in Illinois Register: Internal Rules are not subject to First Notice.

10) Has JCAR issued a Statement of Objections to this(these) rules? No.

11) Difference(s) between proposal and final version: None.

12) Have all changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? Internal Rules are not subject to First Notice.

13) Will this rule replace an emergency rule currently in effect? No.

14) Are there any other proposed amendments pending on this part? No.

The full text of the Adopted Amendments begins on the next page.

ILLINOIS HEALTH CARE COST CONTAINMENT COUNCIL

NOTICE OF ADOPTED AMENDMENTS

TITLE 2: GOVERNMENTAL
SUBTITLE E: MISCELLANEOUS STATE AGENCIES
CHAPTER XLV: ILLINOIS HEALTH CARE COST CONTAINMENT COUNCIL

PART 2600
COUNCIL ORGANIZATION

Section
2600.10 Members
2600.20 Appointment
2600.30 Representation
2600.40 Officers
2600.50 Chairman and Vice-Chairman
2600.60 Secretary
2600.70 Quorum
2600.80 Compensation
2600.90 Reimbursement
2600.100 Official Business
2600.110 Rules Of Order
2600.120 Committees
2600.130 Council Offices and Business Hours
2600.140 Organization
2600.150 Employment of Executive Director
2600.160 Qualifications
2600.170 Fiduciary Obligations
2600.180 Material Financial Interest
2600.190 Chief Operating Officer
2600.200 Duties of the Executive Director
2600.210 Delegation
2600.220 Agenda
2600.230 Litigation
2600.240 Disclosure by Independent Contractors
2600.250 Form of Disclosure
2600.260 Possible Conflict of Interest
APPENDIX A AFFIDAVIT OF ECONOMIC INTERESTS IN HEALTH CARE

AUTHORITY: Implementating Article II and authorized by Section 2-3 of Article II of the Illinois Health Finance Reform Act (Ill. Rev. Stat. ~~1985~~ 1991), ch.111 1/2, pars. 6502-1 et seq.).

ILLINOIS HEALTH CARE COST CONTAINMENT COUNCIL

NOTICE OF ADOPTED AMENDMENTS

SOURCE: Adopted at 10 Ill. Reg. 8738, effective May 15, 1986; amended at 15 Ill. Reg. 17607, effective November 20, 1991; amended at 16 Ill. Reg. 18808, effective November 24, 1992.

Section 2600.130 Council Offices and Business Hours

~~a)~~ ~~The Illinois Health Care Cost Containment Council ("the Council") shall maintain two offices; one office to be located in Chicago, Illinois and the second in Springfield, Illinois.~~

a) Offices of the Council shall be located as deemed necessary for the conduct of the Council's business, such necessity being determined by the Council acting with the advice of the Executive Director. Offices shall be open each day except Saturdays, Sundays and State legal holidays, from 8:30 a.m. to 5:00 p.m. Changes in the locations of Council offices shall be announced to all interested parties by mail and as far in advance of relocation as possible. Chief Executive Officers of Illinois hospitals licensed by the Illinois Department of Public Health shall be notified of such relocations by certified mail, return receipt requested as far in advance of relocation as possible.

~~b)~~ ~~Each office shall be open each day except Saturdays, Sundays and State legal holidays, from 8:30 a.m. to 5:00 p.m.~~

b) However, at any time, the offices of the Council may be kept open such additional time as the Council or the Executive Director shall deem necessary to carry out the Council's duties.

~~c)~~ ~~However, at any time, the offices of the Council may be kept open such additional time as the Council or the Executive Director shall deem necessary to carry out the Council's duties.~~

(Source: Amended at 16 Ill. Reg. 18808, effective November 24, 1992)

NOTICE OF ADOPTED AMENDMENT(S)

1) Heading of Part: Illinois Police Training Act

2) Code Citation: 20 Ill.Adm.Code 1720

3) Section Number: 1720.35 — Adopted Action: New Section

4) Statutory Authority: Ill.Rev.Stat. 1991, ch. 85, par. 507

5) Effective Date of Rule(s) (Amendments, Repealer): November 19, 1992

6) Does this rulemaking contain an automatic repeal date?: No.

7) Does this rule (amendment, repealer) contain incorporations by reference? No.

8) Date filed in agency's principal office: January 1, 1992

9) Notice(s) of Proposal Published in Illinois Register: 16 Ill. Reg. 7756, May 22, 1992.

10) Has JCAR issued a Statement of Objections to this (these) Rule(s)? No.

11) Difference(s) between proposal and final version:

Changes were made as follows:

In the AUTHORITY NOTE "1991" replaced 1989 in the Statutory Citation.

In Section 1720.35 (c) "subsection" replaced Section 1720.35, and "above" was added behind "(a)". In addition, 1989 was changed to 1991.

In Section 1720.35 (d), 4), "and" was added to the end behind the semi-colon.

In Section 1720.35 (i), the number "(30)" was added behind the word.

In Section 1720.35 (j), the word "ten" was added before the number 10.

In Section 1720.35 (k), the number "(90)" was added behind ninety.

12) Have all the changes agreed upon by the Agency and JCAR been made as indicated in the agreement letter issued by JCAR? No agreement letter was issued.

13) Will this rule (amendments, repealer) replace an emergency rule currently in effect? No.

14) Are there any amendments pending on this Part? No.

NOTICE OF ADOPTED AMENDMENT(S)

15) Summary and Purpose of Rule(s): The Board has adopted this rule to establish minimum academy entrance requirements. The standards for entry into Board-certified academies meet the legislative requirements.

16) Information and questions regarding this adopted rule shall be directed to:

Kevin T. McClain
Illinois Local Governmental Law Enforcement
Officers Training Board
600 South Second Street - Suite 300
Springfield, IL 62704-2542

The full text of the adopted rule(s) begins on the following page:

ILLINOIS LOCAL GOVERNMENTAL LAW
ENFORCEMENT OFFICERS TRAINING BOARD

NOTICE OF ADOPTED AMENDMENT(S)

TITLE 20: CORRECTIONS, CRIMINAL JUSTICE, AND LAW ENFORCEMENT
CHAPTER V: ILLINOIS LOCAL GOVERNMENTAL LAW
ENFORCEMENT OFFICERS TRAINING BOARD

PART 1720
ILLINOIS POLICE TRAINING ACT

Section
1720.10 Course Requirements
1720.15 Equivalency Examination
1720.20 Minimum Requirements of the Trainee
1720.25 Procedures for Administration of Law Enforcement and Correctional Officers Certification Examination
1720.30 School Standards and Requirements
1720.35 Academy Entrance Qualifications
1720.40 Qualification of Police Instructors
1720.50 Reimbursements
1720.60 Requirements of Participating Local Agencies
1720.70 Minimum Training Requirements for Illinois Sheriffs
APPENDIX A Physical Fitness Standards

AUTHORITY: Implementing and authorized by the Illinois Police Training Act (Ill. Rev. Stat. 1991, ch. 85, par. 501 et seq.)

SOURCE: Filed and effective July 26, 1966; codified at 7 Ill. Reg. 11232; amended at 8 Ill. Reg. 12259, effective July 1, 1984; amended at 11 Ill. Reg. 16692, effective October 6, 1987; amended at 12 Ill. Reg. 3728, effective February 2, 1988; amended at 13 Ill. Reg. 19957, effective December 11, 1989; amended at 14 Ill. Reg. 14800, effective September 4, 1990; amended at 15 Ill. Reg. 999, effective January 14, 1991; amended at 16 Ill. Reg. 4002, effective February 28, 1992; emergency amendment at 16 Ill. Reg. 727, effective January 1, 1992; amended at 16 Ill. Reg. 18811, effective November 19, 1992.

Section 1720.35 Academy Entrance Qualifications

a) A person shall not be eligible to enter a Board-certified academy for basic training if that person has been convicted of a felony or any other crime involving moral turpitude, and unless he or she is a person of good character.

b) Moral turpitude includes, but is not limited to, actions which contravene the need to protect the public, fail to meet the integrity of the profession, or do not preserve the administration of justice from reproach.

c) An applicant's employer agency shall submit an authorization to obtain and release information, and a written certification to the academy on or within thirty days prior to the first day of basic training. The written certification shall attest that the applicant's background has been checked and verified, and that the applicant meets the requirements set forth in subsection (a) above and Section 6 of the Illinois Police Training Act (Ill. Rev. Stat. 1991, ch. 85, par. 506).

ILLINOIS LOCAL GOVERNMENTAL LAW
ENFORCEMENT OFFICERS TRAINING BOARD

NOTICE OF ADOPTED AMENDMENT(S)

d) The written certification shall contain the following information:
1) Name and address of employer agency;
2) Name and address of applicant;
3) Verification that the criminal history of the applicant has been examined and contains no violation as specified in this rule;
4) Verification that the personal history of the applicant has been examined and that the applicant is of good character; and
5) Dated signatures of the agency head on the application with an attestation from the applicant that the information is true and correct.

e) The Board-certified academy director shall have the first two weeks of training to review the qualifications of the applicant to enter the academy. An applicant's participation in the academy is conditional upon this review.

f) In the event that the Board-certified academy director determines that an applicant does not meet the standards set forth by law, the applicant's employer agency shall be notified in writing that the applicant is not eligible to enter the academy, and the applicant shall be sent home. Reasons for the denial shall be in writing.

g) Any employer agency who wishes to appeal the decision of a director denying admission into a Board-certified academy shall, within ten days, submit a written request for review to the Executive Director of the Board.

h) The Executive Director of the Board shall have thirty days to undertake a review of the academy director's decision. The Executive Director shall have the powers of investigation. Failure to cooperate in the investigation on the part of the applicant or employer agency may result in disqualification.

i) The Executive Director shall decide within thirty (30) days whether to confirm or overrule the academy director's decision.

j) In the event the Executive Director confirms the decision, the applicant's employer agency may, in writing, file an appeal, within ten (10) days of the Executive Director's decision. The Board's Executive Committee shall review the record at the next regularly scheduled quarterly Executive Committee meeting to confirm or overrule the Executive Director. The Executive Committee shall make its recommendation to the Board at the Board's next regularly scheduled meeting.

k) If an appeal is filed, an applicant shall be entitled to the ninety (90) day extension in Section 8.1 of the Act to complete basic training.

(Source: Added at 16 Ill. Reg. 18811, effective November 19, 1992)

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

1) Heading of the Part: General Assistance

2) Code Citation: 89 Ill. Adm. Code 114

3) Section Numbers: Adopted Action:

114.1	Amendment
114.2	Amendment
114.351	Amendment
114.352	Amendment
114.353	Amendment

4) Statutory Authority: Section 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 6-1 et seq. and 12-13)

5) Effective Date of Amendments: November 24, 1992

6) Does this rulemaking contain an automatic repeal date? No

7) Do these Amendments contain incorporations by reference? No

8) Date Filed in Agency's Principal Office: November 24, 1992

9) Notice of Proposal Published in Illinois Register:

September 11, 1992 (16 Ill. Reg. 13766)

10) Has JCAR issued a Statement of Objections to these Adopted Amendments? No

11) Differences between proposal and final version: Three changes have been made in the text of amendments.

The first change was the addition of the previous entry to the main source note: "emergency amendment at 16 Ill. Reg. 14769, effective September 15, 1992, for a maximum of 150 days." The second change was the updating of the statutory citation in Section 114.2(c) to the current year "1991." The final change was the deletion of the period which followed the parenthesis in Section 114.2(c).

12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? Yes

13) Will these Amendments replace Emergency Amendments currently in effect? Yes

14) Are there any Amendments pending on this Part? Yes

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

Sections	Proposed Action	Illinois Register Citation
114.9	Amendment	September 4, 1992 (16 Ill. Reg. 13395)
114.120	Amendment	October 16, 1992 (16 Ill. Reg. 15810)
114.121	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.124	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.125	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.126	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.127	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.128	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.129	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.130	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.135	Repeal	October 16, 1992 (16 Ill. Reg. 15810)
114.270	Repeal	October 2, 1992 (16 Ill. Reg. 15008)
114.406	New Section	November 20, 1992 (16 Ill. Reg. 17459)
114.420	Amendment	October 2, 1992 (16 Ill. Reg. 15008)
114.430	Amendment	October 9, 1992 (16 Ill. Reg. 15287)
114.440	New Section	September 25, 1992 (16 Ill. Reg. 14538)

15) Summary and Purpose of Amendments: These proposed amendments discontinue Transitional Assistance payments for employable adults and continue the reduction in General Assistance payment levels which were implemented on February 1, 1992. Transitional Assistance payments will continue to be provided to individual adults determined to be not employable. The elimination of employable adults from the Transitional Assistance program is expected to reduce Department expenditures in Fiscal Year 1993 by approximately $76 million. Continuing the reduction in General Assistance payment levels is expected to reduce Department expenditures in fiscal year 1993 by $5.9 million.

This rulemaking authorizes payments for medical transportation and referral and payments to medical providers in order to secure documentation or reports necessary to make a determination of not employable. This rulemaking also expands the criteria for being determined not employable under the Transitional Assistance Program. This rulemaking adds the following criteria to be used in the determination of not employable:

1) Suffers from an addictive drug or alcohol abuse problem which prevents the client from working;

2) Homeless due to a court-ordered evacuation, domestic violence, fire or natural disaster;

3) Through the age of 19 in full-time attendance in high school or equivalent vocational or other training school;

4) Required to take medication to control diabetes, hypertension or seizure disorders; or

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

5) Temporary illness or incapacity for the period of incapacity or illness.

In addition, this rulemaking eliminates Grandfathered Payment Levels from the General Assistance Program.

16) Information and questions regarding these Adopted Amendments shall be directed to:

Name: Judy Umunna
Address: Bureau of Rules and Regulations
Illinois Department of Public Aid
100 South Grand Avenue East, Third Floor
Springfield, Illinois 62762
Telephone: (217) 524-3215

The full text of the Adopted Amendments begins on the next page:

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

TITLE 89: SOCIAL SERVICES
CHAPTER I: DEPARTMENT OF PUBLIC AID
SUBCHAPTER b: ASSISTANCE PROGRAMS

PART 114
GENERAL ASSISTANCE

SUBPART A: GENERAL PROVISIONS

Section
114.1 Description of the Assistance Program
EMERGENCY
114.2 Determination of Not Employable
EMERGENCY
114.5 Incorporation By Reference

SUBPART B: NON-FINANCIAL FACTORS OF ELIGIBILITY

Section
114.9 Client Cooperation
EMERGENCY
114.10 Citizenship
114.20 Residence
114.30 Age
114.40 Relationship
114.50 Living Arrangement
114.52 Social Security Numbers
114.60 Work Registration Requirements (Outside City of Chicago only)
114.61 Individuals Exempt From Work Registration Requirements (Outside City of Chicago only)
114.62 Job Service Registration (Outside City of Chicago only)
114.63 Failure to Maintain Current Job Service Registration (Outside City of Chicago only)
114.64 Responsibility to Seek Employment (Outside City of Chicago only)
114.70 Initial Employment Expenses (Outside City of Chicago only)
114.80 Downstate General Assistance Work and Training Programs
114.85 Downstate General Assistance - Food Stamps Employment and Training Pilot Project
114.90 Project Chance Participation/Cooperation Requirements (Renumbered)
114.100 General Assistance Jobs Program (Repealed)

SUBPART C: PROJECT ADVANCE

Section
114.108 Project Advance
114.109 Project Advance Participation Requirements of Adjudicated Fathers
114.110 Project Advance Cooperation Requirements of Adjudicated Fathers
114.111 Project Advance Sanctions

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114.113 Project Advance Good Cause for Failure to Comply
114.115 Individuals Exempt From Project Advance
114.117 Project Advance Supportive Services

SUBPART D: EMPLOYMENT AND TRAINING REQUIREMENTS

Section
114.120 Employment and Training Requirements
EMERGENCY
114.121 Persons Required to Participate in Project Chance (Repealed)
EMERGENCY
114.122 Advocacy Program for Persons Who Have Applied for Supplemental Security Income (SSI) Under Title XVI of the Social Security Act (Repealed)
114.123 Persons in Need of Work Rehabilitative Services (WRS) to Become Employable (Repealed)
114.124 Employment and Training Participation/Cooperation Requirements
EMERGENCY (Repealed)
114.125 Employment and Training Program Orientation (Repealed)
EMERGENCY
114.126 Employment and Training Program Full Assessment Process/Development
EMERGENCY of an Employment Plan (Repealed)
114.127 Employment and Training Program Components (Repealed)
EMERGENCY
114.128 Employment and Training Sanctions (Repealed)
EMERGENCY
114.129 Good Cause For Failure to Cooperate With Work and Training
EMERGENCY Participation Requirements (Repealed)
114.130 Employment and Training Supportive Services (Repealed)
EMERGENCY
114.135 Conciliation and Fair Hearings (Repealed)
EMERGENCY
114.140 Employment Child Care (Repealed)

SUBPART E: FINANCIAL FACTORS OF ELIGIBILITY

Section
114.200 Unearned Income
114.201 Budgeting Unearned Income
114.202 Budgeting Unearned Income of Applicants Receiving Income On Date of Application And/Or Date of Decision
114.203 Initial Receipt of Unearned Income
114.204 Termination of Unearned Income
114.210 Exempt Unearned Income
114.220 Education Benefits
114.221 Unearned Income In-Kind
114.222 Earmarked Income
114.223 Lump Sum Payments

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NOTICE OF ADOPTED AMENDMENTS

114.224 Protected Income
114.225 Earned Income
114.226 Budgeting Earned Income
114.227 Budgeting Earned Income of Applicants Receiving Income On Date of Application And/Or Date of Decision
114.228 Initial Employment
114.229 Termination of Employment
114.230 Exempt Earned Income
114.235 Recognized Employment Expenses
114.240 Income From Work/Study/Training Program (Repealed)
114.241 Earned Income From Self-Employment
114.242 Earned Income From Roomer and Boarder
114.243 Earned Income From Rental Property
114.244 Earned Income In-Kind
114.245 Payments from the Illinois Department of Children and Family Services
114.246 Budgeting Earned Income For Contractual Employees
114.247 Budgeting Earned Income For Non-contractual School Employees
114.250 Assets
114.251 Exempt Assets
114.252 Asset Disregards
114.260 Deferral of Consideration of Assets (Repealed)
114.270 Property Transfers
114.280 Supplemental Payments

SUBPART F: PAYMENT AMOUNTS

Section
114.350 Payment Levels for General Assistance
114.351 Payment Levels in Group I Counties
EMERGENCY
114.352 Payment Levels in Group II Counties
EMERGENCY
114.353 Payment Levels in Group III Counties
EMERGENCY

SUBPART G: OTHER PROVISIONS

Section
114.400 Persons Who May Be Included In the Assistance Unit
114.401 Eligibility of Strikers
114.402 Special Needs Authorizations
114.403 Institutional Status
114.404 Retrospective Budgeting
114.405 Budgeting Schedule
114.406 Limitation on Amount of General Assistance to Recipients from Other
EMERGENCY States
114.420 Redetermination of Eligibility

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

114.430 Twelve Month Extension of Medical Assistance Due to Increased Income From Employment
114.440 Attorney's Fees for VA Appellants
EMERGENCY

SUBPART H: CHILD CARE

Section
114.450 Child Care
114.452 Child Care Eligibility
114.454 Qualified Provider
114.456 Notification of Available Services
114.458 Participant Rights and Responsibilities
114.462 Additional Service to Secure or Maintain Child Care Arrangements
114.464 Rates of Payment for Child Care
114.466 Method of Providing Child Care

SUBPART I: TRANSITIONAL CHILD CARE

Section
114.500 Transitional Child Care Eligibility
114.504 Duration of Eligibility for Transitional Child Care
114.506 Loss of Eligibility for Transitional Child Care
114.508 Qualified Provider
114.510 Notification of Available Services
114.512 Participant Rights and Responsibilities
114.514 Child Care Overpayments and Recoveries
114.516 Fees for Service for Transitional Child Care
114.518 Rates of Payment for Transitional Child Care

AUTHORITY: Implementing Article VI and authorized by Section 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 6-1 et seq. and 12-13)

SOURCE: Filed effective December 30, 1977; peremptory amendment at 2 Ill. Reg. 17, p. 117, effective February 1, 1978; amended at 2 Ill. Reg. 31, p. 134, effective August 5, 1978; emergency amendment at 2 Ill. Reg. 37, p. 4, effective August 30, 1978, for a maximum of 150 days; peremptory amendment at 2 Ill. Reg. 46, p. 44, effective November 1, 1978; peremptory amendment at 2 Ill. Reg. 46, p. 56, effective November 1, 1978; emergency amendment at 3 Ill. Reg. 16, p. 41, effective April 9, 1979, for a maximum of 150 days; emergency amendment at 3 Ill. Reg. 28, p. 182, effective July 1, 1979, for a maximum of 150 days; amended at 3 Ill. Reg. 33, p. 399, effective August 18, 1979; amendment at 3 Ill. Reg. 33, p. 415, effective August 18, 1979; amended at 3 Ill. Reg. 38, p. 243, effective September 21, 1979; peremptory amendment at 3 Ill. Reg. 38, p. 321, effective September 7, 1979; amended at 3 Ill. Reg. 40, p. 140, effective October 6, 1979; amended at 3 Ill. Reg. 46, p. 36, effective November 2, 1979; amended at 3 Ill. Reg. 47, p. 96, effective November 13,

DEPARTMENT OF PUBLIC AID

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1979; amended at 3 Ill. Reg. 48, p. 1, effective November 15, 1979; peremptory amendment at 4 Ill. Reg. 9, p. 259, effective February 22, 1980; amended at 4 Ill. Reg. 10, p. 258, effective February 25, 1980; amended at 4 Ill. Reg. 12, p. 551, effective March 10, 1980; amended at 4 Ill. Reg. 27, p. 387, effective June 24, 1980; emergency amendment at 4 Ill. Reg. 29, p. 294, effective July 8, 1980, for a maximum of 150 days; amended at 4 Ill. Reg. 37, p. 797, effective September 2, 1980; amended at 4 Ill. Reg. 37, p. 800, effective September 2, 1980; amended at 4 Ill. Reg. 45, p. 134, effective October 27, 1980; amended at 5 Ill. Reg. 766, effective January 2, 1981; amended at 5 Ill. Reg. 1134, effective January 26, 1981; peremptory amendment at 5 Ill. Reg. 5722, effective June 1, 1981; amended at 5 Ill. Reg. 7071, effective June 23, 1981; amended at 5 Ill. Reg. 7104, effective June 23, 1981; amended at 5 Ill. Reg. 8041, effective July 27, 1981; amended at 5 Ill. Reg. 8052, effective July 24, 1981; peremptory amendment at 5 Ill. Reg. 8106, effective August 1, 1981; peremptory amendment at 5 Ill. Reg. 10062, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10079, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10095, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10113, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10124, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 10131, effective October 1, 1981; amended at 5 Ill. Reg. 10730, effective October 1, 1981; amended at 5 Ill. Reg. 10733, effective October 1, 1981; amended at 5 Ill. Reg. 10760, effective October 1, 1981; amended at 5 Ill. Reg. 10767, effective October 1, 1981; peremptory amendment at 5 Ill. Reg. 11647, effective October 16, 1981; peremptory amendment at 6 Ill. Reg. 611, effective January 1, 1982; amended at 6 Ill. Reg. 1216, effective January 14, 1982; emergency amendment at 6 Ill. Reg. 2447, effective March 1, 1982, for a maximum of 150 days; peremptory amendment at 6 Ill. Reg. 2452, effective February 11, 1982; peremptory amendment at 6 Ill. Reg. 6475, effective May 18, 1982; peremptory amendment at 6 Ill. Reg. 6912, effective May 20, 1982; emergency amendment at 6 Ill. Reg. 7299, effective June 2, 1982, for a maximum of 150 days; amended at 6 Ill. Reg. 8115, effective July 1, 1982; amended at 6 Ill. Reg. 8142, effective July 1, 1982; amended at 6 Ill. Reg. 8159, effective July 1, 1982; amended at 6 Ill. Reg. 10970, effective August 26, 1982; amended at 6 Ill. Reg. 11921, effective September 21, 1982; amended at 6 Ill. Reg. 12293, effective October 1, 1982; amended at 6 Ill. Reg. 12318, effective October 1, 1982; amended at 6 Ill. Reg. 13754, effective November 1, 1982; rules repealed, new rules adopted and codified at 7 Ill. Reg. 907, effective January 7, 1983; amended (by adding Sections being codified with no substantive change) at 7 Ill. Reg. 5195; amended at 7 Ill. Reg. 9909, effective August 5, 1983; amended (by adding section being codified with no substantive change) at 7 Ill. Reg. 14747; amended (by adding section being codified with no substantive change) at 7 Ill. Reg. 16107; amended at 7 Ill. Reg. 16408, effective November 30, 1983; amended at 7 Ill. Reg. 16652, effective December 1, 1983; amended at 8 Ill. Reg. 243, effective December 27, 1983; amended at 8 Ill. Reg. 5233, effective April 9, 1984; amended at 8 Ill. Reg. 6764, effective April 27, 1984; amended at 8 Ill. Reg. 11435, effective June 27, 1984; amended at 8 Ill. Reg. 13319, effective July 16, 1984; amended at 8 Ill. Reg. 16237, effective August 24,

1984; amended (by adding sections being codified with no substantive change) at 8 Ill. Reg. 17896; amended at 9 Ill. Reg. 314, effective January 1, 1985; emergency amendment at 9 Ill. Reg. 823, effective January 3, 1985, for a maximum of 150 days; amended at 9 Ill. Reg. 9557, effective June 5, 1985; amended at 9 Ill. Reg. 10764, effective July 5, 1985; amended at 9 Ill. Reg. 15800, effective October 16, 1985; amended at 10 Ill. Reg. 1924, effective January 17, 1986; amended at 10 Ill. Reg. 3660, effective January 30, 1986; emergency amendment at 10 Ill. Reg. 4646, effective February 3, 1986, for a maximum of 150 days; amended at 10 Ill. Reg. 4896, effective March 7, 1986; amended at 10 Ill. Reg. 10681, effective June 3, 1986; amended at 10 Ill. Reg. 11041, effective June 5, 1986; amended at 10 Ill. Reg. 12662, effective July 14, 1986; amended at 10 Ill. Reg. 15118, effective September 5, 1986; amended at 10 Ill. Reg. 15640, effective September 19, 1986; amended at 10 Ill. Reg. 19079, effective October 24, 1986; amended at 11 Ill. Reg. 2307, effective January 16, 1987; amended at 11 Ill. Reg. 5297, effective March 11, 1987; amended at 11 Ill. Reg. 6238, effective March 20, 1987; emergency amendment at 11 Ill. Reg. 12449, effective July 10, 1987, for a maximum of 150 days; emergency amendment at 11 Ill. Reg. 12948, effective August 1, 1987, for a maximum of 150 days; emergency amendment at 11 Ill. Reg. 18311, effective November 1, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 18689, effective November 1, 1987; emergency amendment at 11 Ill. Reg. 18791, effective November 1, 1987, for a maximum of 150 days; amended at 11 Ill. Reg. 20129, effective December 4, 1987; amended at 11 Ill. Reg. 20889, effective December 14, 1987; amended at 12 Ill. Reg. 889, effective January 1, 1988; SUBPARTS C, D and E recodified to SUBPARTS E, F and G at 12 Ill. Reg. 2147; Section 114.110 recodified to Section 114.52 at 12 Ill. Reg. 2984; amended at 12 Ill. Reg. 3505, effective January 22, 1988; amended at 12 Ill. Reg. 6170, effective March 18, 1988; amended at 12 Ill. Reg. 6719, effective March 22, 1988; amended at 12 Ill. Reg. 9108, effective May 20, 1988; amended at 12 Ill. Reg. 9699, effective May 24, 1988; amended at 12 Ill. Reg. 9940, effective May 31, 1988; amended at 12 Ill. Reg. 11474, effective June 30, 1988; amended at 12 Ill. Reg. 14255, effective August 30, 1988; emergency amendment at 12 Ill. Reg. 14364, effective September 1, 1988, for a maximum of 150 days; amended at 12 Ill. Reg. 16729, effective September 30, 1988; amended at 12 Ill. Reg. 20171, effective November 28, 1988; amended at 13 Ill. Reg. 89, effective January 1, 1989; amended at 13 Ill. Reg. 1546, effective January 20, 1989; amended at 13 Ill. Reg. 3900, effective March 10, 1989; amended at 13 Ill. Reg. 8580, effective May 20, 1989; emergency amendment at 13 Ill. Reg. 16169, effective October 2, 1989, for a maximum of 150 days; emergency expired March 1, 1990; amended at 13 Ill. Reg. 16015, effective October 6, 1989; amended at 14 Ill. Reg. 746, effective January 1, 1990; amended at 14 Ill. Reg. 3640, effective February 23, 1990; amended at 14 Ill. Reg. 6360, effective April 16, 1990; amended at 14 Ill. Reg. 10929, effective June 20, 1990; amended at 14 Ill. Reg. 13215, effective August 6, 1990; amended at 14 Ill. Reg. 13777, effective August 10, 1990; amended at 14 Ill. Reg. 14162, effective August 17, 1990; amended at 14 Ill. Reg. 17111, effective September 30, 1990; amended at 15 Ill. Reg. 288, effective January 1, 1991; amended at 15 Ill. Reg. 5710, effective April 10, 1991; amended at 15 Ill. Reg. 11164, effective August 1,

1991; emergency amendment at 15 Ill. Reg. 15144, effective October 7, 1991, for a maximum of 150 days; amended at 16 Ill. Reg. 3512, effective February 20, 1992; emergency amendment at 16 Ill. Reg. 4540, effective March 10, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 11662, effective July 1, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 13297, effective August 15, 1992; emergency amendment at 16 Ill. Reg. 13651, effective September 1, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 14769, effective September 15, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 16276, effective October 1, 1992, for a maximum of 150 days; emergency amendment at 16 Ill. Reg. 17772, effective November 13, 1992, for a maximum of 150 days; amended at 16 Ill. Reg. 18815, effective November 24, 1992.

NOTE: CAPITALIZATION DENOTES STATUTORY LANGUAGE

SUBPART A: GENERAL PROVISIONS

Section 114.1 Description of the Assistance Program

a) General Assistance--financial and medical assistance available to eligible needy families or individuals who are ineligible to receive assistance through a categorical or Federal Assistance Program. See 89 Ill. Adm. Code 140.5 for covered medical services~~;~~.

a~~)~~b) General Assistance is provided to eligible families and to pregnant women, as defined in Section 114.400, through the ~~Children~~-Family and ~~Family~~-Children Assistance program. Assistance is provided without regard to any limitation on the number of months an eligible family or pregnant woman may receive such benefits.

b~~)~~c) For Fiscal Year 1992 (July 1, 1991 through June 30, 1992), General Assistance is provided to individual adults, as defined in Section 114.400, through the Transitional Assistance program, with the following limitations~~;~~:

1) ~~For the fiscal year beginning July 1, 1991, individuals~~ Individuals receiving Transitional Assistance may only receive such assistance for nine calendar months. Receipt of General Assistance or Transitional Assistance for any month in Fiscal Year 1992~~,~~ (July 1991 through June 1992), shall count towards this limitation.

2) ~~Beginning July 1, 1992, eligible individuals may only receive Transitional Assistance for any six months out of any 12 consecutive calendar month period.~~

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

Section 114.1(c) (continued)

~~3~~2) Transitional aAssistance shall not be continued pending a final decision in an appeal past the nine month limitation ~~or six month limitations in subsections (b)(1) and (2)~~ in subsection (c)(1) above under any circumstances, unless the client has appealed a determination of employability on a timely basis and the hearing is pending on the date the nine month ~~or six month~~ limitation would become effective for that client.

~~4~~3) Notwithstanding ~~subsections (b)(1) and (2)~~ subsection (c)(1) above, eligible individuals may qualify for Transitional Assistance without regard to any limitations on the number of months of eligibility during any time period if the individual is determined to be not employable pursuant to Section 114.2.

d) Effective July 1, 1992, General Assistance is provided to individual adults, as defined in Section 114.400, through the Transitional Assistance program only for those individuals determined to be not employable pursuant to Section 114.2 and only for those months that the client is considered not employable pursuant to Section 114.2.

(Source: Amended at 16 Ill. Reg. 18815 effective November 24, 1992)

Section 114.2 Determination of Not Employable

a) Unless determined not employable pursuant to this Section, a client ~~who receives Transitional Assistance~~ shall be considered employable.

b) A client shall be determined not employable if determined to meet one of the following criteria:

1) Age 55 or over and has not had gross earnings totaling $2,000 or more in the past year and also has not earned at least $200 a month in seven of the last twelve months;

2) Serious medical, physical or mental problem which prevents the client from working~~, including alcohol or other substance abuse~~; Referral and payment to medical providers will be made for relevant examinations and reports to make this determination where the client has been unable to secure any documentation or reports or where the Department determines that further documentation or reports are necessary to make a determination. Medical transportation will also be provided if necessary and requested by the client;

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

Section 114.2(b) (continued)

3) Needed at home to care for another person, as determined by a medical provider; ~~or~~

4) Does not have a high school diploma, or GED; does not have gross earnings totaling $2,000 or more in the past year; has not earned at least $200 a month in three of the last twenty-four months; and who cannot read English at the 5.9 grade level. Under this last category of not employable, if a client has not attained the required reading level after receiving Transitional Assistance for twelve months, the client will then be deemed employable, unless not employable under a different criteria~~.~~;

5) Suffers from an addictive drug or alcohol abuse problem which prevents the client from working. Documentation of the condition and inability to work must be provided by a medical provider or other substance abuse provider and the client must be seeking treatment or be referred to and seeking treatment through the Department of Alcoholism and Substance Abuse or a community based agency providing DASA services;

6) Is homeless due to the occurrence within six months of the date of application of a court-ordered evacuation of a building in which he or she lived, domestic violence, fire or natural disaster. Homeless, for this purpose, is defined as residing in a homeless or domestic violence shelter. An individual can be considered not employable for this reason until the client is no longer homeless or until six months have elapsed from the date of application, whichever is earlier;

7) Under the age of 20 and in full-time school attendance in high school or the equivalent vocational or other training school;

8) Required to take medication to control diabetes, hypertension or seizure disorders; or

9) Temporarily ill or incapacitated. The client is only eligible during the period of medically documented illness or incapacity.

c) If a client claims to be unable to work due to a serious medical, physical or mental problem (including alcohol or other substance abuse under subsection (b)(2) or (b)(5) above), a determination of eligibility for Interim Assistance shall first be made. (See 89 Ill. Adm. Code 113.400 et seq.) The determination of more likely than not eligible for SSI made under the Interim Assistance program shall constitute the determination of whether a client is not employable. The Department has combined the determination of "more likely than

Section 114.2(c) (continued)

not eligible for SSI" and the determination of whether a client is "not employable" on the basis of a serious medical, physical or mental problem. The single standard has been developed based on the standard of "chronically needy" found in Section 6-11(c)(2) of the Public Aid Code (Ill.Rev.Stat. ~~1989~~ 1991, ch. 23, par. 6-11(c)(2)). (See 89 Ill. Adm. Code 113.410 for this standard.)

d) The client must cooperate in the eligibility process for Interim Assistance, including but not limited to applying for SSI and cooperating with any requirements of the SSI Advocacy program, in order to be eligible either for Interim Assistance or Transitional Assistance.

e) If the client is determined to be more likely than not eligible for SSI, the client shall be entitled to Interim Assistance. If the client is determined to be not more likely than not eligible for SSI, this shall constitute a determination that the client is employable.

f) An Interim Assistance recipient who is later determined not disabled by the Social Security Administration, and therefore ineligible for SSI, loses eligibility for Interim Assistance. However, that client shall continue to be considered not employable for purposes of Transitional Assistance until determined otherwise.

(Source: Amended at 16 Ill. Reg. 18815, effective November 24, 1992)

SUBPART F: PAYMENT AMOUNTS

Section 114.351 Payment Levels in Group I Counties

a) The following payment levels are established for the GA Program in Group I Counties.

b) The counties included in Group I are:

Boone	DuPage	Lake	Winnebago
Champaign	Kane	McHenry	Woodford
Cook	Kankakee	Ogle	
DeKalb	Kendall	Whiteside	

1) Family And Children Assistance Case Payment Levels

Section 114.351(b)(1) (continued)

SIZE OF ASSISTANCE UNIT	CARETAKER RELATIVE(S) AND CHILD(REN)		CHILD(REN) ONLY	
	CURRENT	~~GRANDFATHERED~~	CURRENT	~~GRANDFATHERED~~
1	165		102	
2	268		201	
3	367		249	
4	414		319	
5	485		379	
6	545		407	~~417~~
7	574		438	~~479~~
8	604		469	~~511~~
9	635	~~649~~	503	~~571~~
10	669	~~700~~	538	
11	705	~~752~~	576	
12	741	~~814~~	614	
13	781			
14	822	~~926~~		
15	866			
16	911			
17	959			
18	1010			

2) The Transitional Assistance case payment level in Group I counties is $154.

c) For family sizes greater than 18 or 12, the amount of the payment level shall be determined by adding $50.00 or $38.00 respectively for each person above 18 or 12.

d) As the legislature has determined that payments under the GA program should contain amounts for the purpose of energy assistance, and has directed that such amounts be established by rule, the first $10 of the GA Payment Level, in the City of Chicago and, for Caretaker Relatives and Children, Family size of 1, and the first $18 of the GA Payment Level for Caretaker Relatives and Children of other family sizes has been designated as being for the purpose of energy assistance.

~~e) For assistance units which contain both caretaker relatives and children and which contain nine (9) or more persons, two payment levels are established --- Current and Grandfathered. Likewise, for assistance units with children only and which contain six (6) or more~~

Section 114.351(e) (continued)

~~persons,-two-payment-levels-are-established---Current-and Grandfathered.~~

~~1) Grandfathered-Payment-Levels-apply-for-families-who-are-at-that family-size-as-of-January-1,-1987.--These-families-will-remain at-that-Payment-Level-until-there-is-a-change-in-family composition-or-the-family-goes-off-the-assistance-rolls.--If such-a-family-changes-family-composition-(adds-a-member-or-loses a-member),-thereafter-the-Current-Payment-Level-for-the appropriate-family-size-will-be-used.--If-such-family-goes-off assistance-and-then-comes-back-on,-the-family-will-come-back-on the-assistance-rolls-at-the-Current-Payment-Level-for-the appropriate-family-size.--The-Department-will-not-withdraw "grandfathered"-status-if-a-change-in-family-composition-is rescinded-or-if-an-assistance-unit-is-erroneously-cancelled-and then-reinstated.~~

~~2) Current-Payment-Levels-are-the-regular-Payment-Levels-used-by the-Department-and-shall-be-used-for-all-persons-except-those who-meet-the-criteria-of-subsection-(e)(1)-above.~~

(Source: Amended at 16 Ill. Reg. 18815, effective November 24, 1992)

Section 114.352 Payment Levels in Group II Counties

a) The following payment levels are established for the GA Program in Group II Counties.

b) The counties included in Group II are:

Adams	Henry	Madison	Sangamon
Bureau	Iroquois	McDonough	St. Clair
Carroll	Jackson	McLean	Stephenson
Clinton	JoDaviess	Mercer	Tazewell
Coles	Knox	Monroe	Vermilion
DeWitt	LaSalle	Morgan	Wabash
Douglas	Lee	Moultrie	Warren
Effingham	Livingston	Peoria	Will
Ford	Logan	Piatt	
Fulton	Macon	Putnam	
Grundy	Macoupin	Rock Island	

1) Family And Children Assistance Case Payment Levels

Section 114.352(b)(1) (continued)

SIZE OF ASSISTANCE UNIT	CARETAKER RELATIVE(S) AND CHILD(REN)		CHILD(REN) ONLY	
	CURRENT	~~GRANDFATHERED~~	CURRENT	~~GRANDFATHERED~~
1	160		97	
2	259		194	
3	355		242	
4	403		311	
5	471		369	
6	529		397	~~403~~
7	557		427	~~463~~
8	588		459	
9	619	~~628~~	491	
10	651	~~681~~	525	
11	685	~~735~~	561	
12	721	~~794~~	599	
13	760	~~852~~		
14	799			
15	841	964		
16	886			
17	934			
18	982			

2) The Transitional Assistance case payment level in Group II counties is $149.

c) For family sizes greater than 18 or 12, the amount of the payment level shall be determined by adding $48.00 or $38.00 respectively for each person above 18 or 12.

d) As the legislature has determined that payments under the GA program should contain amounts for the purpose of energy assistance, and has directed that such amounts be established by rule, the first $5 of the GA Payment Level for Caretaker Relative and Children, Family size of 1, and the first $18 of the GA Payment Level for Caretaker Relatives and Children of other family sizes has been designated as being for the purpose of energy assistance.

~~e) For-assistance-units-which-contain-both-caretaker-relatives-and children-and-which-contain-nine-(9)-or-more-persons,-two-payment levels-are-established---Current-and-Grandfathered.--Likewise,-for assistance-units-with-children-only-and-which-contain-six-(6)-or-more persons,-two-payment-levels-are-established---Current-and Grandfathered.~~

Section 114.352(e) (continued)

~~1) Grandfathered Payment Levels apply for families who are at that family size as of January 1, 1987. These families will remain at that Payment Level until there is a change in family composition or the family goes off the assistance rolls. If such a family changes family composition (adds a member or loses a member), thereafter the Current Payment Level for the appropriate family size will be used. If such a family goes off assistance and then comes back on, the family will come back on the assistance rolls at the Current Payment Level for the appropriate family size. The Department will not withdraw "grandfathered" status if a change in family composition is rescinded or if an assistance unit is erroneously cancelled and then reinstated.~~

~~2) Current Payment Levels are the regular Payment Levels used by the Department and shall be used for all persons except those who meet the criteria of subsection (e)(1) above.~~

(Source: Amended at 16 Ill. Reg. 18815, effective November 24, 1992)

Section 114.353 Payment Levels in Group III Counties

a) The following payment level are established for the GA Program in Group III Counties.

b) The counties included in Group III are:

Alexander	Fayette	Lawrence	Richland
Bond	Franklin	Marion	Saline
Brown	Gallatin	Marshall	Schuyler
Calhoun	Greene	Mason	Scott
Cass	Hamilton	Massac	Shelby
Christian	Hancock	Menard	Stark
Clark	Hardin	Montgomery	Union
Clay	Henderson	Perry	Washington
Crawford	Jasper	Pike	Wayne
Cumberland	Jefferson	Pope	White
Edgar	Jersey	Pulaski	Williamson
Edwards	Johnson	Randolph	

1) Family and Children Assistance Case Payment Levels

Section 114.353(b)(1) (continued)

SIZE OF ASSISTANCE UNIT	CARETAKER RELATIVE(S) AND CHILD(REN)		CHILD(REN) ONLY	
	CURRENT	~~GRANDFATHERED~~	CURRENT	~~GRANDFATHERED~~
1	154		94	
2	247		188	
3	339		237	
4	389		302	
5	453		359	
6	511		387	
7	538		414	
8	566		445	
9	597		477	
10	628		510	
11	662	~~684~~	545	
12	696		581	
13	733			
14	771			
15	812			
16	855			
17	900			
18	948			

2) The Transitional Assistance case payment level in Group III counties is $144.

c) For family sizes greater than 18 or 12, the amount of the payment level shall be determined by adding $48.00 or $36.00 respectively for each person above 18 or 12.

d) As the legislature has determined that payments under the GA program should contain amounts for the purpose of energy assistance, and has directed that such amounts be established by rule, the first $18 of the GA Payment Level for Caretaker Relatives and Children of all family sizes except the family size of 1 has been designated as being for the purpose of energy assistance.

~~e) For an assistance unit which contains both caretaker relative(s) and children of eleven (11) persons, two payment levels are established -- Current and Grandfathered.~~

~~1) Grandfathered Payment Levels apply for families who are at that family size as of January 1, 1987. These families will remain at that Payment Level until there is a change in family-~~

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Section 114.353(e)(1) (continued)

~~composition or the family goes off the assistance rolls. If such a family changes family composition (adds a member or loses a member), thereafter the Current Payment Level for the appropriate family size will be used. If such a family goes off assistance and then comes back on, the family will come back on the assistance rolls at the Current Payment Level for the appropriate family size. The Department will not withdraw "grandfathered" status if a change in family composition is rescinded or if an assistance unit is erroneously cancelled and then reinstated.~~

~~2) Current Payment Levels are the regular Payment Levels used by the Department and shall be used for all persons except those who meet the criteria of subsection (e)(1) above.~~

(Source: Amended at 16 Ill. Reg. 18815, effective November 24, 1992)

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1) Heading of the Part: Practice in Administrative Hearings

2) Code Citation: 89 Ill. Adm. Code 104

3) Section Numbers: Adopted Action:

104.202	Amendment
104.204	Amendment
104.210	Amendment
104.212	Amendment
104.221	Amendment
104.244	Amendment
104.246	Amendment

4) Statutory Authority: Sections 11-27 et seq. and 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 11-27 et seq. and 12-13)

5) Effective Date of Amendments: December 1, 1992

6) Does this rulemaking contain an automatic repeal date? No

7) Do these Amendments contain incorporations by reference? No

8) Date Filed in Agency's Principal Office: December 1, 1992

9) Notice of Proposal Published in Illinois Register:

August 14, 1992 (16 Ill. Reg. 12758)

10) Has JCAR issued a Statement of Objections to these Adopted Amendments? No

11) Differences between proposal and final version:

The text of Section 104.210 was updated to reflect amendments which were adopted effective August 15, 1992, and published at 16 Ill. Reg. 12903. These amendments added a new subsection (e) to Section 104.210. This change was in accordance with the recommendations of the Administrative Code Division.

In Section 104.204 the phrase "where practicable" was changed to "when practicable" in response to questions from the Joint Committee on Administrative Rules. No other changes have been made in the text of the proposed amendments.

12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? Yes

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13) Will these Amendments replace Emergency Amendments currently in effect? No

14) Are there any Amendments pending on this Part? Yes

Sections	Proposed Action	Illinois Register Citation
104.202	Amendment	March 27, 1992 (16 Ill. Reg. 4741)
104.204	Amendment	March 27, 1992 (16 Ill. Reg. 4741)
104.209	New Section	March 27, 1992 (16 Ill. Reg. 4741)
104.210	Amendment	March 27, 1992 (16 Ill. Reg. 4741)
104.212	Amendment	March 27, 1992 (16 Ill. Reg. 4741)
104.221	Amendment	March 27, 1992 (16 Ill. Reg. 4741)
104.230	Amendment	March 27, 1992 (16 Ill. Reg. 4741)
104.244	Amendment	March 27, 1992 (16 Ill. Reg. 4741)
104.246	Amendment	March 27, 1992 (16 Ill. Reg. 4741)

15) Summary and Purpose of Amendments:

These amendments make changes in the Department of Public Aid's rules governing administrative hearings (89 Ill. Adm. Code 104). They are intended to more fully implement the provisions of Section 11-27 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, par. 11-27), which addresses barring and readmission of vendors to the Medical Assistance Program. The statutory provisions include a broader list of activities in which barred individuals may not participate and these amendments bring the rules into compliance with the statute. The amendments also allow individuals who are automatically barred to seek special permission to continue participation in the Medical Assistance Program.

Prior to the proposal of these amendments on August 14, 1992 (16 Ill. Reg. 12758), an earlier version was proposed on March 27, 1992 (16 Ill. Reg. 4741). However, the Department subsequently determined that changes in some of the provisions of the proposed amendments were necessary and the second proposal incorporated the necessary changes.

16) Information and questions regarding these Adopted Amendments shall be directed to:

Name: Kenneth E. Mitchell
Address: Bureau of Rules and Regulations
Illinois Department of Public Aid
100 South Grand Avenue East, Third Floor
Springfield, Illinois 62762
Telephone: (217) 524-3215

The full text of the Adopted Amendments begins on the next page:

DEPARTMENT OF PUBLIC AID

NOTICE OF ADOPTED AMENDMENTS

TITLE 89: SOCIAL SERVICES
CHAPTER I: DEPARTMENT OF PUBLIC AID
SUBCHAPTER a: GENERAL PROVISIONS

PART 104
PRACTICE IN ADMINISTRATIVE HEARINGS

SUBPART A: ASSISTANCE APPEALS

Section
104.1 Assistance Appeals
104.10 Initiation of Appeal Process
104.11 Pre-Appeal Review
104.12 Notice of Hearing
104.20 Conduct of Hearings
104.21 Representation
104.22 Appellant Participation in Hearing
104.23 Evidentiary Requirements
104.30 Subpoenas
104.35 Amendment of Appeal
104.40 Consolidation of Appeals
104.45 Postponement or Continuation of Hearings
104.50 Withdrawal of Appeal
104.55 Closing of Hearing Record
104.60 Dismissal of Appeal
104.70 Final Administrative Decision
104.80 Public Aid Committee

SUBPART B: RESPONSIBLE RELATIVE AND JOINT PAYEE PETITIONS

Section
104.100 Responsible Relative and Joint Payee Petitions
104.101 Petition for Hearing
104.102 Conduct of Administrative Support Hearings
104.103 Conduct of Hearings to Contest the Determination of Past-Due Support or of Share of Jointly-Owned Funds
104.104 Conduct of Hearings to Stay Service of an Administrative Order for Withholding or Notice of Delinquency, or to Modify, Suspend or Terminate an Administrative Order for Withholding

SUBPART C: MEDICAL VENDOR HEARINGS

Section
104.200 Applicability
104.202 Definitions
104.204 Notice of Denial of an An Application

104.206 Notice of Intent to Recover Money
104.208 Notice of Intent to Terminate, Suspend or Not Renew Provider Agreement
104.210 Right to Hearing
104.212 Prior Factual Determinations
104.215 Notice of Formal Conference
104.216 Formal Conference on Recovery of Money
104.217 Purpose of Formal Conference
104.220 Notice of Hearing
104.221 Issues at ~~Particular~~ Hearings
104.225 Legal Counsel
104.226 Appearance of Attorney or Other Representative
104.230 Notice, Service and Proof of Service
104.231 Form of Papers
104.235 Discovery
104.240 Conduct of Hearings
104.241 Amendments
104.242 Motions
104.243 Subpoenas
104.244 Burden of Proof
104.245 Witness at Hearings
104.246 Evidence at Hearings
104.247 Cross-Examination
104.248 Disqualification of Hearing Officers
104.250 Official Notice
104.255 Computer Generated Documents
104.260 Recommendation of Peer Review Committee
104.270 Time Limits for Hearings
104.271 Continuances and Extensions
104.272 Withholding of Payments During Pendency of Proceedings
104.273 Continuation of Payments During Pendency of Proceedings
104.274 Denial of Payments for Services During Pendency of Proceedings
104.280 Record of Hearings
104.285 Failure to Appear or Proceed
104.290 Recommended Decision
104.295 Director's Decision

SUBPART D: RULES FOR JOINT DEPARTMENT ACTIONS AGAINST SKILLED NURSING FACILITIES AND INTERMEDIATE CARE FACILITIES PARTICIPATING IN THE MEDICAID PROGRAM

Section
104.300 Authority
104.302 Definitions
104.304 Department Actions Against Nursing Homes Facilities
104.310 Certification
104.320 Joint Administrative Hearing

104.330 Facilities Certified Under Both Medicare and Medicaid

SUBPART E: FOOD STAMP ADMINISTRATIVE DISQUALIFICATION HEARINGS

Section
104.400 Suspected Intentional Violation of the Program
104.410 Advance Notice of Administrative Disqualification Hearing
104.420 Postponement of Hearing
104.430 Administrative Disqualification Hearing Procedures
104.440 Failure to Appear
104.450 Participation While Awaiting a Hearing
104.460 Consolidation of Administrative Disqualification Hearing with Fair Hearing
104.470 Administrative Disqualification Hearing Decision and Notice of Decision
104.480 Appeal Procedure

SUBPART F: INCORPORATION BY REFERENCE

Section
104.800 Incorporation By Reference

AUTHORITY: Implementing Sections 11-8 et seq., 12-4.9 and 12-4.25 and authorized by Section 12-13 of the Illinois Public Aid Code (Ill. Rev. Stat. 1991, ch. 23, pars. 11-8 et seq., 12-4.9, 12-4.25 and 12-13)

SOURCE: Filed and effective December 30, 1977; emergency rule at 2 Ill. Reg. 11 pg. 151 effective March 9, 1978 for a maximum of 150 days; amended at 2 Ill. Reg. 21, p. 10, effective May 26, 1978; amended at 2 Ill. Reg. 33, p. 57, effective August 17, 1978; peremptory amendment at 3 Ill. Reg. 11, p. 38 effective March 1, 1979; amended at 4 Ill. Reg. 21, p. 80, effective May 8, 1980; peremptory amendment 5 Ill. Reg. 1197, effective January 23, 1981; amended at 5 Ill. Reg. 10753 effective October 1, 1981; amended at 6 Ill. Reg. 894, effective January 7, 1982; codified at 7 Ill. Reg. 5706; amended at 8 Ill. Reg. 5274, effective April 9, 1984; amended (by adding sections being codified with no substantive change) at 8 Ill. Reg. 16979; amended at 8 Ill. Reg. 18114, effective September 21, 1984; amended at 10 Ill. Reg. 10129, effective June 1, 1986; amended at 11 Ill. Reg. 9213, effective April 30, 1987; amended at 12 Ill. Reg. 9142, effective May 16, 1988; amended at 13 Ill. Reg. 3944, effective March 10, 1989; amended at 13 Ill. Reg. 17013, effective October 16, 1989; amended at 14 Ill. Reg. 18836, effective November 9, 1990; amended at 15 Ill. Reg. 5320, effective April 1, 1991; amended at 15 Ill. Reg. 6557, effective April 30, 1991; amended at 16 Ill. Reg. 12903, effective August 15, 1992; amended at 16 Ill. Reg. 16632, effective October 23, 1992; amended at 16 Ill. Reg. ~~18834~~, effective December 1, 1992.

NOTE: CAPITALIZATION DENOTES STATUTORY LANGUAGE.

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SUBPART C: MEDICAL VENDOR HEARINGS

Section 104.202 Definitions

For the purpose of this Part, the terms "Vendor", "Entity" and "Department policy" shall be as defined at 89 Ill. Adm. Code 140.13.

(Source: Amended at 16 Ill. Reg. 18834, effective December 1, 1992)

Section 104.204 Notice of Denial of an Application

a) If the Department denies an application to participate in the Medical Assistance Program, or denies a request for special permission to continue participation or for reinstatement in the Program, it shall notify the vendor in writing, setting forth:

1) the reasons for the Department's decision,

2) a statement of the right to request a hearing, ~~prior to its decision taking effect,~~

3) a statement of the time, place and nature of the hearing, if one is requested,

4) a statement of the legal authority and jurisdiction under which the hearing is to be held, and

5) a reference to the particular sections of the statutes and rules involved.

b) The Department shall notify the applicant of a decision to deny an application ~~must be made~~ within 60 days, when practicable, of the date ~~it is received by~~ the Department ~~provided that the vendor has submitted~~ has received all materials required by the Department. ~~Notification of this decision must be mailed within 15 days of the decision.~~

(Source: Amended at 16 Ill. Reg. 18834, effective December 1, 1992)

Section 104.210 Right to Hearing

a) A An ~~vendor~~ entity may request a hearing within 10 days after the ~~vendor's~~ entity's receipt of the Department's notice of:

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Section 104.210(a) (continued)

1) the Department's decision to deny an application~~;~~ (as provided in Section 104.204);

2) the Department's intent to recover money (as provided in Section 104.206); or

3) the Department's intent to terminate or suspend a vendor's eligibility or terminate (or not renew) a vendor's provider agreement (as provided in Section 104.208).

b) A request for hearing must be received by the Department within 10 days of the date on which the vendor received the Department's notice.

c) This request must be in writing and must contain a brief statement of the basis upon which the Department's action is being challenged.

d) If such a request is not received within 10 days, or is received but later withdrawn, the Department's decision and the grounds asserted as the basis therefor in the notice shall be a final and binding administrative determination.

e) In actions initiated pursuant to Section 104.206 or 104.208(b), if a vendor requests a hearing, such a request shall not delay the effective date of action set forth in the Notice. In all other actions initiated pursuant to 104.204 or 104.208, the action shall not take place until the final administrative decision has been issued.

(Source: Amended at 16 Ill. Reg. 18834, effective December 1, 1992)

Section 104.212 Prior Factual Determinations

Factual determinations made by the Department in administrative hearings initiated prior to the effective date of these Rules and which involve issues of fact relating to activities which constitute grounds for termination pursuant to these Rules~~, shall be reviewed by the Director and~~ may be used as grounds for approval or denial of applications to participate, for termination or suspension of eligibility or termination (or nonrenewal) of a provider agreement, or for recovery of money, without conducting a new administrative proceeding.

(Source: Amended at 16 Ill. Reg. 18834, effective December 1, 1992)

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Section 104.221 Issues at ~~Particular~~ Hearings

a) The sole issue at a hearing where the basis for denial of an application pursuant to 89 Ill. Adm. Code 140.14(d) is that the vendor does not have a necessary license, certificate or authorization ~~to provide the goods and services he wishes to provide~~, shall be whether or not the vendor has such a license, certificate or authorization.

b) The sole issue at a hearing ~~requested by a vendor that has been previously terminated, barred or denied participation~~ where the basis of the denial of an application is as set forth in 89 Ill. Adm. Code 140.14(b) ~~is~~ shall be whether the vendor has demonstrated, according to the factors listed in that Section, in light of the prior activities, that he should be admitted to the Medical Assistance Program.

c) The sole issue at a hearing where the basis for termination is as set forth in 89 Ill. Adm. Code 140.16(a)(2) shall be whether or not the appropriate licensing, certifying or authorizing agency has determined that the vendor does not have a necessary license, certification or authorization.

d) The sole issue at a hearing requested by a previously suspended vendor that is being terminated pursuant to 89 Ill. Adm. Code 140.19(b) ~~is~~ shall be whether or not the vendor has corrected the deficiencies on which the suspension was based.

e) At a hearing conducted pursuant to Subpart D of this Part, the sole relevant time ~~frame~~ with respect to the existence of the violations of the Department's requirements alleged in the notice shall be the date or dates in the notice.

(Source: Amended at 16 Ill. Reg. 18834, effective December 1, 1992)

Section 104.244 Burden of Proof

a) The burden of proof in hearings conducted pursuant to 89 Ill. Adm. Code 140.14 shall be on the Department if the application was denied because the vendor engaged in activities which constitute grounds for termination or was denied pursuant to 89 Ill. Adm. Code 140.14(c). The burden of proof shall be on the applicant if the application was denied because of:

1) a determination that a previously terminated or barred vendor cannot reasonably be expected to meet the requirements of the Department; or

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Section 104.244(a) (continued)

2) a determination that based on the activities which served as the basis for terminating or barring a vendor, the application should not be approved.

b) The burden of proof in hearings conducted pursuant to 89 Ill. Adm. Code 140.15 or Subpart D of this Part shall be on the Department.

c) The burden of proof in hearings conducted pursuant to 89 Ill. Adm. Code 140.16 shall be on the Department ~~unless the Department is proceeding based on a determination that a previously suspended vendor has not corrected the deficiencies on which the suspension was based~~.

d) The burden of proof in hearings conducted pursuant to 89 Ill. Adm. Code 140.32 shall be on the party seeking special permission, and in hearings conducted pursuant to 89 Ill. Adm. Code 140.19(b) shall be on the vendor.

~~d)~~ e) In the case of any new matter introduced in connection with any affirmative defense, the burden of proof with respect thereto shall be upon the party which alleges such new matter.

~~e)~~ f) The standard of proof with respect to all hearings conducted pursuant to these rules shall be a preponderance of the evidence.

(Source: Amended at 16 Ill. Reg. 18834, effective December 1, 1992)

Section 104.246 Evidence at Hearings

a) The vendor may introduce evidence at the hearing that was not made available to the Department at the time the application or request for special permission was denied. If additional evidence is introduced at the hearing and the hearing officer determines that the vendor did not demonstrate he should be admitted based on the evidence available at the time the application or request for special permission was denied, but would have so demonstrated had the additional evidence at the hearing been available, the hearing shall be remanded to the Department for a new decision which considers such additional evidence. If additional evidence is introduced at the hearing and the hearing officer determines that the vendor would not have demonstrated that he should be admitted to the Medical Assistance Program or granted special permission even if such additional evidence had been considered, the recommendation shall be to uphold the Department's decision.

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NOTICE OF ADOPTED AMENDMENTS

Section 104.246 (continued)

b) Irrelevant, immaterial or unduly repetitious evidence shall be excluded. The rules of evidence and privilege as applied in civil cases in the Circuit Courts of this State shall be followed. However, evidence not admissible under such rules of evidence may be admitted (except where precluded by statute) if it is of the type commonly relied upon by reasonably prudent men in the conduct of their affairs. When the admissibility of evidence is in dispute and depends upon fairly arguable interpretations of law, such evidence shall be admitted. Objections to evidentiary offers may be made and shall be noted in the record. Subject to these requirements, when a hearing will be expedited and the interests of the parties will not be prejudiced, any part of the evidence may be received in written form. Any party may submit evidence in rebuttal or surrebuttal.

c) Summaries of voluminous documents may be admitted into evidence. The document summarized need not itself be admitted into evidence. Copies of the document need not be provided so long as all parties are accorded a reasonable opportunity to inspect the document summarized and no substantial injustice results.

d) If the hearing is related in whole or in part to the Department's intent to recover money and the Department's recovery is based on sampling and extrapolation, the vendor may:

1) present evidence to show that the sample used by the Department was invalid and, therefore, should not be used to project the overpayments identified in the sample to total billings for the audit period; or

2) the vendor may also conduct an audit of 100% of the medical records of payments received during the audit period and present the results of such an audit at the hearing. Any such audit should demonstrate that the vendor's records for the unaudited services provided during the audit period were in compliance with the regulations, provider handbooks and other written requirements of the Department. The vendor should be prepared to submit supporting documentation to demonstrate this compliance.

(Source: Amended at 16 Ill. Reg. 18834, effective December 1, 1992)

DEPARTMENT OF REVENUE

NOTICE OF ADOPTED RULES

1) Heading of the Part: Americans With Disabilities Act Grievance Procedure

2) Code Citation: 4 Ill. Adm. Code 875

3)

Section Numbers:	Adopted Action:
875.10	New Section
875.20	New Section
875.30	New Section
875.40	New Section
875.50	New Section
875.60	New Section
875.70	New Section
875.80	New Section

4) Statutory Authority: Implementing and authorized by Title II, Subtitle A of the Americans With Disabilities Act of 1990 (42 U.S.C. 12131-12134), as specified in Title II regulations (28 CFR 35.107).

5) Effective Date of Amendment(s): November 23, 1992

6) Does this rulemaking contain an automatic repeal date? No

7) Does this amendment contain incorporations by reference? No

8) Date Filed in Agency's Principal Office: November 23, 1992

9) Notice of Proposal Published in Illinois Register:

May 29, 1992, 16 Ill. Reg. 8160, Issue 22

10) Has JCAR issued a Statement of Objections to these Amendments? No

11) Differences between proposal and final version:

The following changes were made in response to suggestions of the Administrative Code Division of the Secretary of State:

1) In Section 875.30 the definitions Section was placed in alphabetical order and labels were deleted.

2) The second word "case" in the title of Section 875.80, was capitalized to agree with the title of the Section in the Table of Contents for the Part.

DEPARTMENT OF REVENUE

NOTICE OF ADOPTED RULES

In response to the review of the Joint Committee on Administrative Rules, the following changes were made:

1) The following language was added to the definition of "Designated Coordinator" in Section 875.30: "The Designated Coordinator may be contacted at the Illinois Department of Revenue, Attn: Personnel Manager, 101 W. Jefferson Street, Springfield, IL 62794."

2) In Section 875.40(b) end of line 2, a comma was placed between the words "limits" and "shall."

3) In Section 875.60(a) each use of the word "Complainant" was capitalized.

4) In Section 875.60(b), sentence 1, the words "Final Level" were capitalized.

5) In Section 875.60(b), sentence 3, the phrase ", or any representative of the Designated Coordinator," was added after "Designated Coordinator."

6) In Section 875.60(e), lines 1 and 5, the word "panel" was placed in lower case.

7) In Section 875.60(e), line 4, the word "Complainant" was capitalized.

8) In Section 875.80, line 1, the word "which" was replaced with the word "that", the word "include" was made plural "includes", and the word "are" was replaced with the word "is."

9) In Section 875.80, line 5, the words "or not" were deleted.

12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? Yes

13) Will this amendment replace an emergency amendment currently in effect? No

14) Are there any amendments pending on this Part? No

15) Summary and Purpose of Amendment(s): As required by the Americans With Disabilities Act of 1990, these proposed rules establish a procedure whereby qualified persons with disabilities may resolve allegations of denial of public services on the basis of disability.

DEPARTMENT OF REVENUE

NOTICE OF ADOPTED RULES

16) Information and questions regarding this adopted amendment shall be directed to:

Michael J. Wynne
General Counsel
Illinois Department of Revenue
Legal Services Bureau
101 West Jefferson
Springfield, Illinois 62708
Phone: (217) 782-9922

The full text of the Adopted Amendment begins on the next page:

DEPARTMENT OF REVENUE

NOTICE OF ADOPTED RULES

TITLE 4: DISCRIMINATION PROCEDURES
CHAPTER XXXII: DEPARTMENT OF REVENUE

PART 875
AMERICANS WITH DISABILITIES ACT GRIEVANCE PROCEDURE

Section
875.10 Applicability
875.20 Purposes
875.30 Definitions
875.40 Procedure
875.50 Designated Coordinator Level
875.60 Final Level
875.70 Accessibility
875.80 Case-by-Case Resolution

AUTHORITY: Implementing and authorized by Title II, Subtitle A of the Americans With Disabilities Act of 1990 (42 U.S.C. 12131-12134), as specified in Title II regulations (28 CFR 35.107).

SOURCE: Adopted at 16 Ill. Reg. 18844, effective November 23, 1992.

Section 875.10 Applicability

This Part applies to all offices of the Illinois Department of Revenue.

Section 875.20 Purposes

a) The Americans With Disabilities Act Grievance Procedure (hereinafter referred to as "Procedure") is established pursuant to the Americans With Disabilities Act of 1990, 42 U.S.C. Section 12101 et seq. (hereinafter referred to as "ADA") and specifically Section 35.107 of the Title II regulations, 28 CFR Part 35, requiring that a grievance procedure be established to resolve grievances asserted by qualified individuals with disabilities. Should any individual desire to review the ADA or its regulations to understand the rights, privileges and remedies afforded by it, please contact the Designated Coordinator.

b) In general, the ADA requires that each program, service and activity offered by the Department of Revenue (hereinafter referred to as "Department"), when viewed in its entirety, be readily accessible to and usable by qualified individuals with disabilities.

c) It is the intention of the Department to foster open communication with all individuals requesting readily accessible programs, services and activities. The Department encourages supervisors of programs, services and activities to respond to requests for modifications before they become grievances.

Section 875.30 Definitions

DEPARTMENT OF REVENUE

NOTICE OF ADOPTED RULES

"Complainant" is an individual with a disability who files a Grievance Form provided by the Department under this procedure.

"Department" means the Illinois Department of Revenue.

"Designated Coordinator" is the person appointed by the Department Director who is responsible for the coordination of efforts of the Department to comply with and carry out its responsibilities under Title II of the ADA including investigation of grievances filed by complainants. The Designated Coordinator may be contacted at The Illinois Department of Revenue, Attn: Personnel Manager, 101 W. Jefferson Street, Springfield, IL 62794. See 28 CFR 35.107.

"Grievance" is any complaint under the ADA by an individual with a disability who meets the essential eligibility requirements for participation in or receipt of the benefits of, a program, activity or service offered by the Department, and believes he or she has been excluded from participation in, or denied the benefits of any program, service or activity of the Department or has been subject to discrimination by the Department.

Section 875.40 Procedure

a) Grievances must be submitted through the channels defined below in the form and manner as described within the specified time limits. It is mutually desirable and beneficial that grievances be satisfactorily resolved in a prompt manner. Time limits established in this procedure are in calendar days, unless otherwise stated, and may be extended by mutual agreement in writing by the Complainant and the Designated Coordinator, at the Designated Coordinator Level, or the Complainant and panel chairperson at the Final Level.

b) A Complainant's failure to submit a grievance, or to submit or appeal it to the next level of procedure within the specified time limits, shall mean that the Complainant has withdrawn the grievance or has accepted the last response given in the grievance procedure as the Department's last response.

c) Upon being informed by an individual that the individual desires to file a formal grievance, the Department shall provide the individual with a copy of this procedure and the Grievance Form.

Section 875.50 Designated Coordinator Level

a) If an individual desires to file a formal written grievance, the individual shall promptly, but no later than 180 days after the alleged discrimination, submit the grievance to the Designated Coordinator in writing on the Grievance Form. The Grievance Form must be completed in full in order to receive proper consideration by the Designated Coordinator.

b) Upon request, assistance shall be provided by the Department to

complete the Grievance Form.

c) The Designated Coordinator, or his/her representative, shall investigate the grievance and shall make reasonable efforts to resolve it. The Designated Coordinator shall provide a written response to the Complainant and Director within ten (10) business days after receipt of the Grievance Form.

Section 875.60 Final Level

a) If the grievance has not been resolved at the Designated Coordinator Level to the satisfaction of the Complainant, the Complainant may submit a copy of the Grievance Form and Designated Coordinator's response to the Director of the Department for final review. The Complainant shall submit these documents to the Director, together with a short written statement explaining the reason(s) for dissatisfaction with the Designated Coordinator's written response, within five (5) business days after receipt by the Complainant of the Designated Coordinator's response.

b) The Director shall appoint a 3-member panel to review the grievance at the Final Level. One member so appointed shall be designated chairperson of the panel. The Designated Coordinator, or any representative of the Designated Coordinator, who conducted the investigation at the Designated Coordinator Level, may not be a member of the panel.

c) The Complainant shall be afforded an opportunity to appear before the panel. Complainant shall have a right to appoint a representative to appear on his/her behalf. Such appearance before the panel shall be an informal meeting to discuss the matter at issue. The panel shall review the Designated Coordinator's written response and may conduct interviews and seek advice as it deems appropriate.

d) Upon reaching a concurrence, the panel shall make recommendations in writing to the Director as to the proper resolution of the grievance. All recommendations shall include reasons for such recommendations and shall bear the signatures of the concurring panel members. A dissenting member of the panel may make a recommendation to the Director in writing and shall sign such recommendation.

e) Upon receipt of recommendations from the panel, the Director shall approve, disapprove or modify the panel's recommendations, rendering a decision thereon in writing that states the basis for the decision, and cause a copy of the decision to be served on the Complainant. If the Director disapproves or modifies the panel's recommendations, the Director shall in the written decision state the reasons for such disapproval or modification. The Director's decision shall be the final decision of the Department on the grievance.

f) The Grievance Form, the Designated Coordinator's response, the statement of the reasons for dissatisfaction, the recommendations of the panel and the decision of the Director shall be maintained in accordance with the State Records Act (Ill. Rev. Stat. 1991, ch. 116, par. 43.3 et seq.), or as otherwise required by law.

Section 875.70 Accessibility

The Department shall ensure that all stages of the Procedure are readily accessible to and usable by individuals with disabilities. The Designated Coordinator shall keep on file a copy of the ADA and its regulations for review at the Department's offices by any individual who requests to review them. The Designated Coordinator or representative shall be available on reasonable notice to answer questions with respect to the rights, privileges and remedies afforded by the ADA and its regulations.

Section 875.80 Case-by-Case Resolution

Each grievance involves a unique set of factors that includes but is not limited to: the specific nature of the disability; the essential eligibility requirements, the benefits to be derived, and the nature of the service, program or activity at issue; the health and safety of others; and whether an accommodation would constitute a fundamental alteration to the program, service or activity or undue hardship on the Department. Accordingly, termination of a grievance at any Level, whether through the granting of relief or otherwise, shall not constitute a precedent on which any other complainant should rely.

DEPARTMENT OF CONSERVATION

NOTICE OF EMERGENCY AMENDMENTS

1) HEADING OF THE PART: Duck, Goose and Coot Hunting

2) CODE CITATION: 17 Ill. Adm. Code 590

3) SECTION NUMBERS: EMERGENCY ACTION:

590.70 New Section

4) STATUTORY AUTHORITY: Implementing and authorized by Sections 1.3, 1.4, 1.13, 2.1, 2.2, 2.18, 2.19, 2.20, 2.23, 2.33, 3.5, 3.6, 3.7, 3.8, and 3.10 of the Wildlife Code (Ill. Rev. Stat. 1991, ch. 61, pars. 1.3, 1.4, 1.13, 2.1, 2.2, 2.18, 2.19, 2.20, 2.23, 2.33, 3.5, 3.6, 3.7, 3.8, and 3.10), and Migratory Bird Hunting (50 CFR 20, effective September 26, 1990).

5) EFFECTIVE DATE OF AMENDMENTS: November 17, 1992

6) IF THIS EMERGENCY AMENDMENT IS TO EXPIRE BEFORE THE END OF THE 150-DAY PERIOD, PLEASE SPECIFY THE DATE ON WHICH IT IS TO EXPIRE: This emergency amendment will remain in effect for the 150-day period.

7) DATE FILED IN AGENCY'S PRINCIPAL OFFICE: November 17, 1992

8) REASON FOR EMERGENCY: Illinois recently entered into a Memorandum of Understanding with the State of Kentucky whereby the following sections of the Ohio River shall be closed to all hunting from October 15 through March 15:

1) The Ohio River from Smithland Lock and Dam upstream to a power line crossing the river at approximately River Mile 911.5 and Stewart Island.

2) The Ohio River in the vicinity of the Ballard Wildlife Management Area located in Ballard County, Kentucky, from a point fifty yards upstream from Dam 53, downstream to a line from the confluence of Hodges Creek to a point fifty yards downstream of the downstream boundary of the Ballard Wildlife Management Area.

9) A COMPLETE DESCRIPTION OF THE SUBJECTS AND ISSUES INVOLVED:

The State of Kentucky has had these sections of the Ohio River designated as a refuge for many years. It is an effective and important refuge annually holding thousands of mallards and contributing to improved hunting in that vicinity of Kentucky and Illinois. Due to the recent Memorandum of Understanding between Kentucky and Illinois, it is necessary that our

DEPARTMENT OF CONSERVATION

NOTICE OF EMERGENCY AMENDMENTS

regulations also reflect the presence of this refuge.

10) ARE THERE ANY PROPOSED AMENDMENTS TO THIS PART PENDING? No

11) STATEMENT OF STATEWIDE POLICY OBJECTIVES (if applicable): This rule has no impact on local governments.

12) INFORMATION AND QUESTIONS REGARDING THESE AMENDMENTS SHALL BE DIRECTED TO:

Jack Price
Department of Conservation
524 S. Second Street, Room 485
Springfield, IL 62701-1787

THE FULL TEXT OF THE EMERGENCY AMENDMENTS BEGINS ON THE NEXT PAGE:

DEPARTMENT OF CONSERVATION

NOTICE OF EMERGENCY AMENDMENTS

TITLE 17: CONSERVATION
CHAPTER I: DEPARTMENT OF CONSERVATION
SUBCHAPTER b: FISH AND WILDLIFE

PART 590
DUCK, GOOSE AND COOT HUNTING

Section
590.10 Statewide Regulations
590.20 Permit Controlled Department Sites Only - Duck, Goose and Coot Hunting
590.25 Illinois Youth Goose Hunting Permit Requirements
590.26 Illinois Youth Duck Hunting Permit Requirements
590.30 Duck, Goose and Coot General Hunting Regulations on all Department-Owned and -Managed Sites.
590.40 Check Station Department Sites Only - Duck, Goose and Coot Hunting
590.50 Non-Check Station Department Sites Only - Duck, Goose and Coot Hunting
590.60 Various Other Department Sites - Duck, Goose and Coot Hunting
590.70 Ohio River
EMERGENCY
590.EXHIBIT A The Non-Toxic Shot Zones of Illinois (Repealed)

AUTHORITY: Implementing and authorized by Sections 1.3, 1.4, 1.13, 2.1, 2.2, 2.18, 2.19, 2.20, 2.23, 2.33, 3.5, 3.6, 3.7, 3.8, and 3.10 of the Wildlife Code (Ill. Rev. Stat. 1991, ch. 61, pars. 1.3, 1.4, 1.13, 2.1, 2.2, 2.18, 2.19, 2.20, 2.23, 2.33, 3.5, 3.6, 3.7, 3.8, and 3.10), and Migratory Bird Hunting (50 CFR 20, effective September 26, 1990).

SOURCE: Adopted at 5 Ill. Reg. 8857, effective August 25, 1981; emergency amendment at 5 Ill. Reg. 11386, effective October 14, 1981, for a maximum of 150 days; codified at 5 Ill. Reg. 10638; Part repealed at 6 Ill. Reg. 9647, effective July 21, 1982; new Part adopted at 6 Ill. Reg. 11865, effective September 22, 1982; amended at 7 Ill. Reg. 13229, effective September 28, 1983; emergency amendment at 7 Ill. Reg. 13948, effective October 6, 1983, for a maximum of 150 days; amended at 8 Ill. Reg. 18968, effective September 26, 1984; amended at 9 Ill. Reg. 14242, effective September 5, 1985; peremptory amendments at 9 Ill. Reg. 15062, effective September 25, 1985; emergency amendments at 9 Ill. Reg. 15928, effective October 8, 1985, for a maximum of 150 days; amended at 10 Ill. Reg. 16588, effective September 22, 1986; emergency amendments at 10 Ill. Reg. 17773, effective September 26, 1986, for a maximum of 150 days; amended at 11 Ill. Reg. 10560, effective May 21, 1987; emergency amendments at 11 Ill. Reg. 15242,

DEPARTMENT OF CONSERVATION

NOTICE OF EMERGENCY AMENDMENTS

effective August 28, 1987, for a maximum of 150 days; emergency expired January 25, 1988; amended at 12 Ill. Reg. 12200, effective July 15, 1988; emergency amendments at 12 Ill. Reg. 16233, effective September 23, 1988, for a maximum of 150 days; emergency expired February 20, 1989; emergency amendments at 12 Ill. Reg. 22244, effective December 7, 1988, for a maximum of 150 days; emergency expired May 6, 1989; amended at 13 Ill. Reg. 10525, effective June 20, 1989; amended at 13 Ill. Reg. 14925, effective September 7, 1989; emergency amendments at 13 Ill. Reg. 16579, effective October 4, 1989, for a maximum of 150 days; emergency expired March 3, 1989; amended at 13 Ill. Reg. 17354, effective October 27, 1989; amended at 14 Ill. Reg. 638, effective January 2, 1990; amended at 14 Ill. Reg. 13529, effective August 13, 1990; emergency amendments at 14 Ill. Reg. 17029, effective September 26, 1990, for a maximum of 150 days; emergency expired February 23, 1991; amended at 15 Ill. Reg. 1487, effective January 22, 1991; amended at 15 Ill. Reg. 13293, effective September 3, 1991; emergency amendments at 15 Ill. Reg. 16745, effective November 5, 1991, for a maximum of 150 days; emergency expired April 3, 1992; amended at 16 Ill. Reg. 570, effective December 31, 1991; amended at 16 Ill. Reg. 12491, effective July 28, 1992; emergency amendments at 16 Ill. Reg. 16672, effective October 15, 1992 for a maximum of 150 days; emergency amendments at 16 Ill. Reg. 18851, effective November 17, 1992, for a maximum of 150 days.

Section 590.70 Ohio River
EMERGENCY

a) Waterfowl hunting will be allowed on the Ohio River bordering Illinois. Season dates and bag limits are governed by the regulations which apply to the Southern Zone (590.10(j)(3)).

b) The following areas of the Ohio River shall be designated as waterfowl refuges and shall be closed to all hunting from October 15 through March 15:

1) The Ohio River from Smithland Lock and Dam upstream to a power line crossing the river at approximately River Mile 911.5 and Stewart Island.

2) The Ohio River in the vicinity of the Ballard Wildlife Management Area located in Ballard County, Kentucky, from a point fifty yards upstream from Dam 53, downstream to a line from the confluence of Hodges Creek to a point fifty yards downstream of the downstream boundary of the Ballard Wildlife Management Area.

DEPARTMENT OF CONSERVATION

NOTICE OF EMERGENCY AMENDMENTS

(Source: Emergency Rule added at 16 Ill. Reg. 18851, effective November 17, 1992, for a maximum of 150 days)

JOINT COMMITTEE ON ADMINISTRATIVE RULES
ILLINOIS GENERAL ASSEMBLY

STATEMENT OF OBJECTION TO
EMERGENCY RULEMAKING

ENVIRONMENTAL PROTECTION AGENCY

Heading of Part: Processing Claims for the Underground Storage Tank Fund

Code Citation: 35 Ill Adm Code 876

Section Numbers: 876.100 876.105
876.110 876.200

Date Originally Published in the Illinois Register: 10/16/92
16 Ill Reg 16191

At its meeting on November 17, 1992, the Joint Committee on Administrative rules objected to the emergency rules of the Environmental Protection Agency entitled Processing Claims for Payment from the Underground Storage Tank Fund because the emergency rulemaking limits the due process rights of UST operators and owners.

Failure of the agency to respond within 90 days after receipt of the Statement of Objection shall be deemed to be a refusal.

JOINT COMMITTEE ON ADMINISTRATIVE RULES
ILLINOIS GENERAL ASSEMBLY

STATEMENT OF RECOMMENDATION TO
EMERGENCY RULEMAKING

ENVIRONMENTAL PROTECTION AGENCY

Heading of Part: Processing Claims for the Underground Storage Tank Fund

Code Citation: 35 Ill Adm Code 876

Section Numbers: 876.100 876.105
876.110 876.200

Date Originally Published in the Illinois Register: 10/16/92
16 Ill Reg 16191

At its meeting on November 17, 1992, the Joint Committee on Administrative rules recommended that the Environmental Protection Agency consult with affected industry groups and be more responsive in preparing its anticipated permanent program rules regarding the Underground Storage Tank program, particularly with respect to: prescription of other permissible corrective action accounting methods; Agency standards as to what constitutes "reasonable" corrective action costs; and possible other elements of its UST program.

Failure of the agency to respond within 90 days after receipt of the Statement of Recommendation shall be deemed to be a refusal.

JOINT COMMITTEE ON ADMINISTRATIVE RULES
ILLINOIS GENERAL ASSEMBLY

STATEMENT OF RECOMMENDATION
TO PROPOSED RULEMAKING

DEPARTMENT OF INSURANCE

Heading of Part: Infertility Coverage

Code Citation: 50 Ill Adm Code 2015

Section Numbers: 2015.10 2015.20
2015.30 2015.40
2015.50 2015.60

Date Originally Published in the Illinois Register: 5/1/92
16 Ill Reg 6925

At its meeting on November 17, 1992, the Joint Committee on Administrative Rules considered the above cited rulemaking and recommends that the Department of Insurance withdraw the rulemaking to allow the Department time to review the commentary of those individuals whose comments arrived after the filing deadline.

The agency should respond to this Recommendation in writing within 90 days after receipt of this Statement. Failure to respond will constitute refusal to accede to the Committee's Recommendation. The agency's response will be placed on the JCAR agenda for further consideration.

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

1) Heading in Part: The Illinois Oil and Gas Act

2) Code Citation: 62 Ill. Adm. Code 240

3) Publication of Rulemaking Requiring Correction:

a) First Notice

March 6, 1992, 16 Ill. Reg. 3282

b) Adoption

October 9, 1992, 16 Ill. Reg. 15513

c) JCAR Request for Correction

November 13, 1992, 16 Ill. Reg. 17378

4) Information and questions regarding this Notice of Expedited Correction shall be directed to:

John C. Henriksen
General Counsel
Illinois Department of Mines and Minerals
300 West Jefferson, Suite 300
P.O. Box 10137
Springfield, Illinois 62791-0137
(217)782-0125

5) Reason Correction is Requested: The correction eliminates a discrepancy between adopted rule text and agreements certified by JCAR during the second notice period.

6) Effect on the Affected Public:

a) Public interest to be served: The Department will comply with the Illinois Administrative Procedures Act.

b) Will any hardship be created for the public affected? No

c) Measures taken and to be taken by the agency to make the corrections known to the public: The Department of Mines and Minerals will advise the affected public by publication of this notice in the Illinois Register.

7) Effective Date of Correction Recommended by the Agency and Explanation for the Recommended Date: September 29, 1992, the effective date of the adopted rules.

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

8) The full text of the Section, indiciating the requested correction begins on the next page:

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

TITLE 62: MINING
CHAPTER I: DEPARTMENT OF MINES AND MINERALS

PART 240
THE ILLINOIS OIL AND GAS
ACT

SUBPART A: GENERAL PROVISIONS

Section
240.10 Definitions
240.20 Prevention of Waste (Repealed)
240.30 Jurisdiction (Repealed)
240.40 Enforcement of Act (Repealed)
240.50 Delegation of Authority (Repealed)
240.60 Right of Inspection (Repealed)
240.70 Right of Access (Repealed)
240.80 Sworn Statements (Repealed)
240.90 Additional Reports (Repealed)
240.100 When Rules Become Effective (Repealed)
240.110 Notice of Rules (Repealed)
240.120 Forms (Repealed)
240.130 Hearings--Notices
240.140 Violations Not Requiring Formal Action
240.150 Notice of Violation
240.160 Director's Decision
240.170 Cessation Order
240.180 Enforcement Hearings
240.190 Temporary Relief
240.195 Subpoenas

SUBPART B: PERMIT APPLICATION PROCEDURES FOR PRODUCTION WELLS

Section
240.200 Applicability
240.210 Application for Permit to Drill, Deepen or Convert to a Production Well
240.220 Contents of Application
240.230 Authority of Person Signing Application
240.240 Additional Requirements for Directional Drilling
240.250 Issuance of Permit
240.255 Underground Injection and Disposal Projects (Recodified)
240.260 Change of Well Location
240.270 Application for Approval of Enhanced Recovery Injection and Disposal Operations (Repealed)
240.280 Duration of Underground Injection Well Orders (Repealed)

SUBPART C: PERMIT APPLICATION PROCEDURES FOR CLASS II UIC WELLS

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

Section
240.300 Applicability
240.305 Transfer of Management (Recodified)
240.310 Application for Permit to Drill, Deepen or Convert to a Class II UIC Well
240.320 Contents of Application
240.330 Authority of Person Signing Application
240.340 Proposed Well Construction and Operating Parameters
240.350 Groundwater and Potable Water Supply Information
240.360 Area of Review
240.370 Public Notice
240.380 Issuance of Permit
240.390 Permit Amendments
240.395 Update of Class II UIC Well Permits Issued Prior to July 1, 1987

SUBPART D: SPACING OF WELLS

Section
240.410 Drilling Units
240.420 Well Location Exceptions within Drilling Unit
240.430 Drilling Unit Exceptions
240.440 More Than One Well on a Drilling Unit
240.450 Directional Drilling
240.460 Special Drilling Units Based Upon Reservoir Characteristics

SUBPART E: WELL DRILLING,
COMPLETION AND WORKOVER REQUIREMENTS

Section
240.500 Definitions
240.510 Department Permit Posted
240.520 Drilling Fluid Handling and Storage
240.530 Completion Fluid and Completion Fluid Waste Handling and Storage
240.540 Drilling and Completion Pit Restoration
240.550 Disposal of General Oilfield Wastes

SUBPART F: WELL CONSTRUCTION, OPERATING AND REPORTING
REQUIREMENTS FOR PRODUCTION WELLS
OPERATING REQUIREMENTS

Section
240.600 Applicability
240.610 Construction Requirements for Production Wells
240.620 Remedial Cementing of Leaking Wells
240.630 Operating Requirements
240.640 Reporting Requirements
240.650 Confidentiality of Well Data
240.655 Mechanical Integrity Testing for Class II Injection Wells (Repealed)
240.660 Monitoring and Reporting Requirements for Enhanced Recovery

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

Injection and Disposal Wells (Repealed)
240.670 Avoidable Waste of Gas (Repealed)
240.680 Escape of Unburned Gas Prohibited (Repealed)

SUBPART G: WELL CONSTRUCTION, OPERATING AND REPORTING REQUIREMENTS FOR CLASS II UIC WELLS

Section
240.700 Applicability
240.710 Surface and Production Casing Requirements for Newly Drilled Class II UIC Wells Drilled After the Effective Date of this Section
240.720 Surface and Production Casing Requirements for Conversion to Class II UIC Wells
240.730 Surface and Production Casing Requirements for Existing Class II UIC Wells
240.740 Other Construction Requirements for Class II UIC Wells
240.750 Operating Requirements for Class II UIC Wells
240.760 Internal Mechanical Integrity Testing for Class II UIC Wells
240.770 External Mechanical Integrity Testing for Class II UIC Wells
240.780 Reporting Requirements for Class II UIC Wells
240.790 Confidentiality of Well Data

SUBPART H: GENERAL LEASE OPERATING REQUIREMENTS AND AVOIDANCE OF SURFACE POLLUTION

Section
240.805 Introduction
240.810 Disposal in Underground Stratum
240.820 Disposal in Earthen Pits
240.830 Pipes to be Kept in Repair
240.840 Burn Off Pits
240.850 Lease Tank Reservoirs
240.860 Fire Hazards at Well Locations
240.870 Mining Board Supervision
240.880 Yearly Inspection--of Pits--Revocation of Permits--Orders for Corrective Action and Other Disposal
240.890 Lease and Well Identification

SUBPART I: OIL FIELD BRINE HAULING

Section
240.905 Introduction (Recodified)
240.910 Authority, Policy and Purpose
240.920 Definitions
240.930 Oil Field Brine Haulers Permit
240.940 Applications for Brine Hauling Permit Shall Include the Following:
240.950 Applications for Oil Field Brine Hauling Permits--Signatures and Authorization
240.960 Oil Field Brine Hauling Permit Conditions

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

240.970 Inspection of Vehicles
240.980 Transfer of Permits
240.985 Revocation of Oil Field Brine Hauling Permit
240.990 Records and Reporting Requirements
240.995 Bonds--Blanket Surety Bond (Repealed)

SUBPART J: VACUUM

Section
240.1005 Requirements for Use of Vacuum Pumps
240.1010 Application for Use of Vacuum
240.1020 Notice and Hearing on Application
240.1030 Mining Board Authority

SUBPART K: PLUGGING OF WELLS

Section
240.1105 Plugging of Non-Productive Wells (Repealed)
240.1110 Definitions
240.1120 Plugging of Uncased Wells
240.1130 Plugging or Temporary Abandonment of Abandoned or Inactive Wells
240.1140 General Plugging Procedures and Requirements
240.1150 Specific Plugging Procedures
240.1151 Procedures for Plugging Coal Seams
240.1160 Plugging Fluid Handling and Storage
240.1170 Plugging Fluid Waste Disposal and Well Site Restoration
240.1180 Lease Restoration (Repealed)
240.1190 Filing Plugging Affidavit

SUBPART L: OTHER WELLS

Section
240.1200 Application for Permit for Geological or Structural Test Hole
240.1205 Transfer of Management (Recodified)
240.1210 When Bond Required--Amount (Recodified)
240.1220 Kind of Bond--Execution (Recodified)
240.1230 Bond of Manager (Recodified)
240.1240 Bond Form--Approval (Recodified)
240.1250 Surety May Cancel Bond (Recodified)
240.1260 Mining Board May Cancel Bond (Recodified)
240.1270 Casing Puller's Bond (Recodified)

SUBPART M: PROTECTION OF WORKABLE COAL BEDS

Section
240.1300 Introduction
240.1305 Permit Requirements in Mine Areas
240.1310 Workable Coal Beds Defined
240.1320 Mining Board may Determine Presence of Coal Seams

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

240.1330 Well Locations Prohibited
240.1340 Notice to Mining Board
240.1350 Casing and Protective Work
240.1360 Operational Requirements Over Active Mine
240.1370 Inspection of Vehicles (Recodified)
240.1380 Transfer of Permits (Recodified)
240.1385 Revocation of Oil Field Brine Hauling Permit (Recodified)
240.1390 Records and Reporting Requirements (Recodified)
240.1395 Bonds--Blanket Surety Bond (Recodified)

SUBPART N: TRANSFER OF OWNERSHIP

Section
240.1400 Definitions
240.1405 Transfer of Management (Repealed)
240.1410 Applicability
240.1420 When Notification to be Made
240.1430 Responsibilities of Current Permittee
240.1440 Responsibilities of New Permittee
240.1450 Authority of Persons Signing Notification
240.1460 Other Conditions for and Effect of Transfer
240.1470 Casing Puller's Bond (Repealed)

SUBPART O: BONDS

Section
240.1500 When Required and Amount
240.1510 Definitions
240.1520 Bond Requirements
240.1530 Forfeiture of Bonds

AUTHORITY: Implementing and authorized by Sections 6 and 8a of The Illinois Oil and Gas Act (Ill. Rev. Stat. 1991, ch. 96 1/2, pars. 5409 and 5413).

SOURCE: Adopted November 7, 1951; emergency amendment at 6 Ill. Reg. 903, effective January 15, 1982, for a maximum of 150 days; amended at 6 Ill. Reg. 5542, effective April 19, 1982; codified at 8 Ill. Reg. 2475; amended at 11 Ill. Reg. 2818, effective January 27, 1987; amended at 14 Ill. Reg. 2317, effective January 25, 1990; recodified at 14 Ill. Reg. 3053; amended at 14 Ill. Reg. 13620, effective August 8, 1990; amended at 14 Ill. Reg. 20427, effective January 1, 1991; amended at 15 Ill. Reg. 2706, effective Jan. 31, 1991; recodified at 15 Ill. Reg. 8566; recodified at 15 Ill. Reg. 11641; emergency amendment at 15 Ill. Reg. 14679, effective September 30, 1991 for a maximum of 150 days; amended at 15 Ill. Reg. 15493, effective October 10, 1991; amended at 16 Ill. Reg. 2576, effective February 3, 1992; amended at 16 Ill. Reg. 15513, effective September 29, 1992; expedited correction at 16 Ill. Reg. 18859, effective September 29, 1992.

NOTE: In this Part, superscript numbers or letters are denoted by parentheses;

DEPARTMENT OF MINES AND MINERALS

NOTICE OF EXPEDITED CORRECTION

subscript are denoted by brackets.

Section 240.1180 Lease Restoration (Repealed)

~~Within--six--(6)--months--after--the-last-well-on-a-lease-has-been-plugged,-all excavations-and-pits-shall-be-filled-and-leveled-to-original-grade.--Subject-to an-existing-right-of-way,-tank-batteries-and-other-production--equipment,--rock and--concrete--pads,-oil-field-debris,-injection-and-flow-lines-at-or-above-the surface,-and-electric-power-lines-and-poles-extending-on-or-above-the--surface, shall-be-removed.--Containment-dikes-shall-be-removed-if-constructed-with-other than-soil-and-leveled-to-original-grade.~~

(Source: Repealed by Expedited Correction at 16 Ill. Reg. 18859, effective September 29, 1992)

DEPARTMENT OF REVENUE

NOTICE OF PUBLIC INFORMATION

1. Statute requiring agency to publish this information in the Illinois Register:

   Name of Act: Illinois Department of Revenue Sunshine Act
   Citation: Ill. Rev. Stat. 1991, ch. 127, par. 2001
   (Public Act 82-727, effective November 12, 1991).

2. Summary of information:

   Index of Department of Revenue income tax letter rulings issued for the Second Quarter of 1992.

   The ruling letters are listed numerically with a brief synopsis under the following subjects:

Addition Modifications
  Bond Premium Amortization
  Dividends
  Interest
  Net Operating Loss
  Zero Coupon Bonds
  Other Rulings
    (not included above)
Administrative Review
Allocation
  (For Alternative Allocation rulings, see that heading)
Alternative Allocation
Amnesty
Apportionment
  Financial Organizations
  Insurance Companies
  Payroll Factor
  Property Factor
  Sales Factor
  Transportation Services
  Other Rulings
    (not included above)
Assessment
Bankruptcy
Base Income
  (Also See Addition Modifications, Fringe Benefits, Subtraction Modifications)
Books and Records
Bulk Sales: See Sales Outside the Ordinary Course of Business (Bulk Sales)
Business Income
Capital Gains (Losses)
  (Also See Subtraction Modifications - Valuation Limitation)
Check Off Funds
Circuit Breaker
Claims for Refund: See Refunds
Collection
Combined Unitary Return
  (Also See Unitary)
Commercial Domicile
Compensation
Composite Returns
Confidentiality
Credits
  Coal Research and Utilization
  Credit for Replacement Tax Paid
  Enterprise Zone Investment
  Foreign Tax
  High Impact Business Investment
  Jobs Tax
  Replacement Tax Investment
  Research and Development
  Training Expense
  Other Rulings
    (not included above)
Deficiencies
Definitions
Domestic International Sales Corporations (DISC's)
Elections: See Combined Unitary Return, Extensions, Unitary
Enterprise Zones
  (Also See Credits, Subtraction Modifications)
Erroneous Refund: See Refunds
Estates
Estimated Tax
Exempt Organizations
Exemptions
Extensions
Failure to File: See Penalties
Failure to Pay: See Penalties
Farmers: See Estimated Tax
Federal Returns
Fiduciaries
Financial Organizations: See Apportionment
Foreclosure
Foreign Sales Corporations (FSC's)
Foreign Tax: See Credits
Foreign Trade Zones: See Subtraction Modifications, Credits--Jobs Tax
Forms
Fraud: See Penalties
Fringe Benefits
  IRC §125 "Cafeteria" Plans
  IRC §401(k) Plans
  Other Rulings
    (not included above)
Gain (Loss): See Capital Gains (Losses), Valuation Limitation
Information Reports
Insurance Companies: See Apportionment
Interest Income
  (Also See Addition Modifications, Subtraction Modifications)
Interest on Refunds and Deficiencies
IRC §338
Jeopardy: See Assessment
Judicial Review
Liens
Lottery
Military
  (Also See Subtraction Modifications)
Miscellaneous
Modification Addition: See Addition Modifications
Modification Subtraction: See Subtraction Modifications
Mutual Funds: See Subtraction Modifications
Net Income (Loss) and Net Loss Deduction (IITA §207)
  (Also See Base Income, Capital Gains (Losses), Combined Unitary Return, Net Operating Loss and Net Operating Loss Deduction)
Net Operating Loss and Net Operating Loss Deduction
Nexus: See Public Law 86-272/Nexus
Nonbusiness Income
Nonresidents: See Residency/Nonresidency
Notice and Demand: See Notices
Notices
Overpayments: See Refunds
Partnerships
Payments:
  (Also See Estimated Tax)
Payroll Factor: See Apportionment
Penalties
Failure to File (IITA §1001)
  Failure to File Withholding Returns (IITA §1004)
  Failure to Pay (IITA §1002)
  Failure to Pay Estimated Tax (IITA §804)
  Fraud (IITA §1002)
  Reasonable Cause (IITA §1001)
  Underpayment of Tax (IITA §1005)
  Other Rulings
    (Not included above)
Pensions
  (Also See Subtraction Modifications)
Political Organizations
Property Factor: See Apportionment
Property Tax: See Subtraction

DEPARTMENT OF REVENUE

NOTICE OF PUBLIC INFORMATION

DEPARTMENT OF REVENUE

NOTICE OF PUBLIC INFORMATION

Modifications
Protest
Public Law 86-272/Nexus
Rate of Tax
Real Estate Investment Trusts
Reasonable Cause: See Penalties
Refunds (Also See Subtraction Modifications)
Statute of Limitations
Other Rulings (not included above)
Replacement Tax (Also See Credits)
Residency/Nonresidency
Returns (For Combined Unitary Return and Composite Return rulings, see those headings)
Amended Returns
Due Dates
Requirements to File
Short Period Returns
Other Rulings (not included above)
S Corporations
Sales Factor: See Apportionment
Sales Outside the Ordinary Course of Business (Bulk Sales)
Seizure
Separate Accounting: See Alternative Allocation
Signature
Specific Accounting
Statute of Limitations: See Assessment, Collection, Deficiencies, Refunds
Subchapter (S) Corporations: See S Corporations
Subpart F Income: See Subtraction Modifications
Subtraction Modifications
Enterprise and Foreign Trade Zones
Illinois Tax Refund
Interest on U.S. Government Obligations
Military
Money Market Mutual Funds
Qualified Pension Plans
Real Estate Taxes
Subpart F Income
Valuation Limitation
Other Rulings (not included above)(
Taxability in Other States
Taxable Year
Transferees (Also See Sales Outside the Ordinary Course of Business (Bulk Sales))
Transportation Services: See Apportionment
Trusts
Unitary (Also See Combined Unitary Return)
U.S. Government Obligations: See Subtraction Modifications
Valuation Limitation: See Subtraction Modifications
Voluntary Disclosure Agreements
Waiver on Assessments: See Assessment
Withholding
Employee Benefits
Exemptions
Personal Service Contracts (IITA §1405.2)
Reciprocal Agreements
Other Rulings (not included above)

Copies of the ruling letters themselves are available for inspection and may be purchased for a minimum of $1.00 per opinion plus 25 cents per page for each page over one.

DEPARTMENT OF REVENUE

NOTICE OF PUBLIC INFORMATION

The index of Income Tax letter rulings for 1990 is available for $3.00. A cumulative Income Tax Sunshine Index of 1981 through 1989 letter rulings may be purchased for $4.00.

3. Name and address of person to contact concerning this information:

Margaret Forth
Legal Division
101 West Jefferson Street
Springfield, Illinois 62794
Telephone: (217) 782-6996

DEPARTMENT OF COMMERCE AND COMMUNITY AFFAIRS

NOTICE OF REGULATORY FLEXIBILITY IMPACT ANALYSIS

Upon initial review, it has been determined that the following proposed rules promulgated by State agencies may impact small business:

TRANSPORTATION, DEPARTMENT OF
Construction in Floodways of Rivers, Lake & Streams;
92 Ill. Adm. Code 700
Published November 13, 1992 at 16 Ill. Reg. 17235

Regulation of Public Waters;
92 Ill. Adm. Code 704
Published November 13, 1992 at 16 Ill. Reg. 17244

Also, please note that there was an error in the Notice of Regulatory Flexibility Impact Analysis on page 16427 of Issue 43 of the Illinois Register dated October 23, 1992. The Department of Revenue's Nursing Home Grant Assistant Act; 86 Ill. Adm. Code 535 was listed as having been published on September 9, 1992 at 16 Ill. Reg. 15340. The actual date of publication of this rule was October 9, 1992.

Persons wishing to obtain more information concerning the impact on small business may contact:

Linda Brand
Department of Commerce and Community Affairs
Office of Regulatory Assistance
620 East Adams Street/6th Floor
Springfield, IL 62701
(217) 524-1516

JOINT COMMITTEE ON ADMINISTRATIVE RULES
ILLINOIS GENERAL ASSEMBLY

SECOND NOTICES RECEIVED

The following second notices were received by the Joint Committee on Administrative Rules during the period of November 18, 1992 through November 24, 1992, and have been scheduled for review by the Committee at its December 15, 1992 meeting. Other items not contained in this published list may also be considered. Members of the public wishing to express their views with respect to a rule should submit written comments to the Committee at the following address: Joint Committee on Administrative Rules, 700 Stratton Office Bldg., Springfield, IL 62706.

Second Notice Expires	Agency and Rule	Start of First Notice	JCAR Meeting
1/4/93	Department of Public Health, School Child Immunization Code (77 Ill Adm Code 695)	9/4/92 16 Ill Reg 13472	12/15/92
1/4/93	Department of Public Health, College Immunization Code (77 Ill Adm Code 694)	9/4/92 16 Ill Reg 13414	12/15/92
1/4/93	Department of Public Aid, Aid to Families with Dependent Children (89 Ill Adm Code 112)	9/25/92 16 Ill Reg 14522	12/15/92
1/4/93	Department of Public Aid, Medical Assistance Programs (89 Ill Adm Code 120)	9/25/92 16 Ill Reg 14544	12/15/92
1/6/93	Department of Central Management Services, Standard Procurement (44 Ill Adm Code 1)	8/21/92 16 Ill Reg 12808	12/15/92
1/6/93	Department of Mines and Minerals, The Illinois Oil and Gas Act (62 Ill Adm Code 240)	9/11/92 16 Ill Reg 13722	12/15/92
1/6/93	Department of Public Aid, Crisis Assistance (89 Ill Adm Code 116)	9/11/92 16 Ill Reg 13764	12/15/92

PROCLAMATION

92-521
VICE ADMIRAL MICHAEL P. KALLERES DAY

Whereas, the United Hellenic American Congress (UHAC) is an organization that serves the Greek-American community on civic, business, cultural, and social issues; and

Whereas, each year, the UHAC holds a dinner dance to recognize an individual who has made outstanding contributions to the Greek-American community; and

Whereas, Vice Admiral Michael P. Kalleres will be honored at this year's dinner, which will take place November 21 in the Chicago Ballroom of the Sheraton Chicago Hotel and Towers; and

Whereas, through the years, Vice Admiral Kalleres has played a distinguished role in the operations of the U.S. Navy, including training more than 75 percent of the Navy units deployed to the Persian Gulf after Kuwait was invaded by Iraq. He currently serves as commander of the Military Sealift Command; and

Whereas, he has earned numerous awards for his military achievements, including the Defense Distinguished Service Medal, the Vietnam Service Medal, the Legion of Merit with four gold stars; and the National Defense Service Medal with one bronze star; and

Whereas, Vice Admiral Kalleres' community involvement has been lauded with several civilian awards, such as the Saint Andrew Medal for Public Service and the 1992 Hellene of the Year, both awarded by the Greek Orthodox Church of North and South America;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 21, 1992, as VICE ADMIRAL MICHAEL P. KALLERES DAY in Illinois and commend the vice admiral on the outstanding contributions he has made toward the well-being of our state and nation.

Issued by the Governor November 13, 1992.
Filed with the Secretary of State November 19, 1992.

92-522
ANNUAL HIGH TECHNOLOGY WEEK

Whereas, Illinois has devoted significant efforts to fostering the development of its technology base, making Illinois companies among the national leaders in fields such as electronics, telecommunications, computer hardware and software, medicine, and agricultural sciences; and

Whereas, Illinois is home to such renowned research institutions and facilities as Argonne National Laboratory, the Fermi National Accelerator Laboratory, the University of Illinois, the University of Chicago, Northwestern University, and the Illinois Institute of Technology, as well as numerous

technology commercialization centers at universities and federal laboratories across the state; and

Whereas, Illinois high technology companies employ more than 580,000 individuals in our state, placing Illinois among the leading centers for high technology employment and for corporate research and development in the United States; and

Whereas, the high technology practice of KPMG Peat Marwick, one of the world's leading professional accounting and consulting organizations, has been a catalyst in the development of the state's technology infrastructure; and

Whereas, through the establishment of the Illinois High Tech Awards program in 1984 and the implementation of that program, KPMG Peat Marwick has encouraged the progress of high technology business development and vitalized entrepreneurial spirit by showcasing role models for aspiring high technology entrepreneurs to emulate;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 22-28, 1992, as ANNUAL HIGH TECHNOLOGY WEEK in Illinois and urge all citizens to show appreciation and support for technological advances in our state.

Issued by the Governor November 16, 1992.
Filed with the Secretary of State November 19, 1992.

92-523
HISPANIC STATE EMPLOYEE DAY

Whereas, Hispanics represent 904,000 or 7.9 percent of the Illinois population and by the year 2010, will be the largest minority group in the United States; and

Whereas, according to the Bureau of the Census, Illinois ranks among the top five states with sizable Hispanic populations; and

Whereas, state government is committed to providing services to the Hispanic population in the areas of education, housing, health, business, employment, and training opportunities; and

Whereas, the Illinois Association of Hispanic State Employees is sponsoring the 5th Annual Conference on Hispanic State Employment at Northeastern Illinois University November 20. The theme of this year's conference is "Our Future is Now Through Education, Employment and Unity";

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 20, 1992, as HISPANIC STATE EMPLOYEE DAY in Illinois in recognition of the contributions Hispanic employees have made to the vitality and growth of our state.

Issued by the Governor November 16, 1992.
Filed with the Secretary of State November 19, 1992.

92-524
TRAVELERS WITH DISABILITIES AWARENESS WEEK

Whereas, the Americans with Disabilities Act (ADA) protects the civil rights of individuals with disabilities and guarantees them equal opportunities in employment, public accommodations, transportation, state and local government services, and telecommunications; and

Whereas, an increasing number of people with disabilities are traveling, touring, and enjoying hospitality services and leisure activities; and

Whereas, the State of Illinois seeks to promote respect and equal opportunities for all people;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 29-December 5, 1992, as TRAVELERS WITH DISABILITIES AWARENESS WEEK in Illinois and encourage all citizens involved in the travel industry to respect travelers with disabilities, become aware of their needs, and provide them with accessibility to activities and accommodations.

Issued by the Governor November 16, 1992.

Filed with the Secretary of State November 19, 1992.

92-525
FAMILY LIFE WEEK

Whereas, the strength of American society depends on making certain all our citizens are given the opportunity to know and experience the highest quality of family life; and

Whereas, it is the family experience of growing together, helping each other, learning from older and younger family members, and making sacrifices for the benefit of all; and

Whereas, through family life, individuals encounter essential human qualities such as love, affection, generosity, and kindness; and

Whereas, it is through the nurturing of values within the family that individuals develop a strong sense of ethics and morality; and

Whereas, the family is the primary place for the young to learn respect for others, to take on responsibility, and to discover the meaning of duty;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 22-28, 1992, as FAMILY LIFE WEEK in Illinois.

Issued by the Governor November 17, 1992.

Filed with the Secretary of State November 19, 1992.

92-526
INTERNATIONAL HOUSEWARES WEEK

Whereas, the Board of Directors of the National Housewares Manufacturers Association has chosen our state for its 96th

International Housewares Show; and

Whereas, Illinois has hosted the nation's premier housewares show since 1928; and

Whereas, the American housewares industry represents more than $45 billion in annual retail sales and is actively involved in export activities; and

Whereas, the National Housewares Manufacturers Association's 1993 International Housewares Show is the largest U.S. marketplace for buying and selling housewares products; and

Whereas, the world's largest "housewares-only" exposition brings 12,000 American buyers and more than 3,000 buyers from other countries to Illinois to purchase goods from 2,000 housewares exhibitors; and

Whereas, the International Housewares Show attracts more than 50,000 people to Illinois;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim January 10-13, 1993, as INTERNATIONAL HOUSEWARES WEEK in Illinois and welcome the International Housewares Show to our state.

Issued by the Governor November 17, 1992.

Filed with the Secretary of State November 19, 1992.

92-527
MIDWESTERN REGIONAL MEDICAL CENTER DAY

Whereas, Midwestern Regional Medical Center and the City of Zion have a long history of cooperation in providing health care to the citizens of Zion; and

Whereas, the center has adopted a sensitive and compassionate health-care philosophy that empowers patients to take an active role in their treatment and in their medical center; and

Whereas, the center offers a number of services, including state-of-the-art diagnostic procedures; laser and endoscopic surgery; noninvasive cardiology; and a comprehensive cancer care program; and

Whereas, on November 21, 1992, Midwestern Regional Medical Center is celebrating the grand opening on its new $20 million patient-designed facility;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 21, 1992, as MIDWESTERN REGIONAL MEDICAL CENTER DAY in Illinois and commend the center on the compassionate, high-quality care it provides to our citizens.

Issued by the Governor November 17, 1992.

Filed with the Secretary of State November 19, 1992.

92-528
SPINAL HEALTH CARE MONTH

Whereas, during October, doctors of chiropractic throughout the United States take part in a community health program to

promote the importance of our citizens' spinal health; and

Whereas, spinal integrity helps all organs in the body function more efficiently, and spinal health is essential to proper growth and development; and

Whereas, Illinoisans should become more aware of their spinal health and receive periodic examinations; and

Whereas, the chiropractic science and the doctors who practice it have contributed greatly to the better health of our citizenry by providing this specialized health care;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim October 1992 as SPINAL HEALTH CARE MONTH in Illinois.

Issued by the Governor November 17, 1992.

Filed with the Secretary of State November 19, 1992.

92-529
ST. AILBE'S PARISH DAY

Whereas, St. Ailbe's Catholic Church in Chicago has played an integral role in the religious tradition on the southeast side of the city; and

Whereas, the history of St. Ailbe's community can be traced back to the late nineteenth century when voters in a surrounding 120 square mile area, including the immediate community that became St. Ailbe's parish, elected to be annexed to the city of Chicago; and

Whereas, on November 4, 1892, the Archbishop of Chicago appointed Father W.S. Hennessy as pastor of the new church at Stony Point. Father Hennessy named the church St. Ailbe's in honor of an Irish saint; and

Whereas, St. Ailbe's was formally dedicated by Archbishop Patrick A. Feehan on September 9, 1984, during a significant period for Irish and Polish immigrants; and

Whereas, St. Ailbe's has served its community with great love and devotion through its many pastors, including Father Joseph A. Glennon (1903-1910); Father Michael D. Hennessy (1910-1913); Father Phillip Trayner (1913-1917); Father John S. Morris (1917-1919); Father Frank P. Murphy (1919-1920); Father John P. Doran (1920-1940); Father Edward V. Turner (1940-1946); Father Eugene P. Sullivan (1946-1968); Father Francis A. Ciezadlo (1968-1975); Father Donald C. Cahill (1975-1984); Pastoral Team Ministry led by Father Robert P. Heinz (1984-1990; Father Victor Stewart (1990-1991); and Father John Breslin (1991-present); and

Whereas, today, as a strong African-American Catholic community, St. Ailbe's Church is celebrating its 100th anniversary and living its logo--"Rooted in Faith-Strengthened by Love;" and

Whereas, on August 9, 1992, 91st Street West of Stony Island Avenue to the railroad tracks on the West was renamed St. Ailbe Drive; and

Whereas, on November 22, 1992, Cardinal Joseph Bernardin, Archbishop of Chicago, will preside as Mass to solemnly mark the

centennial celebration of St. Ailbe's as a faith community dedicated to the vitality and generosity of its people;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 22, 1992, as ST. AILBE'S PARISH DAY in Illinois.

Issued by the Governor November 18, 1992.

Filed with the Secretary of State November 19, 1992.

92-530
THANKSGIVING DAY

"My country 'tis of thee, Sweet land of liberty, of thee I sing. Land where our fathers died, land of the Pilgrim's pride. From every mountainside, let freedom ring." "American," Samuel Francis Smith, 1832

Whereas, the Pilgrims carried on an ancient tradition when they held a Thanksgiving festival at Plymouth Colony in 1621. They were grateful for their survival and the absence of persecution; and

Whereas, America's first national Thanksgiving was proclaimed by the Continental Congress on November 1, 1777. George Washington made the first presidential proclamation for a Thanksgiving in 1789, in honor of the new Constitution; and

Whereas, Thanksgiving Day was first celebrated on a specific day in 1861 upon President Lincoln's request. All states now observe the last Thursday in November as a day of thanks; and

Whereas, we are still thankful today for our well-being and our environment of freedom, as the Pilgrims were, and Thanksgiving Day is anticipated with joy and cherished as one of the most beautiful expressions of the spirit of America;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim November 26, 1992, as THANKSGIVING DAY in Illinois.

Issued by the Governor November 18, 1992.

Filed with the Secretary of State November 19, 1992.

ACTION CODES

A - Adopted Rule
AR - Adopted Repealer
C - Notice of Corrections
CC - Codification Changes
E - Emergency Rule
ER - Emergency Repealer
M - Modification to meet JCAR objections
O - JCAR Statement of Objections
RQ - Request for Correction
EC - Expedited Corrections
P - Proposed Rule
PF - Prohibited Filing Order by JCAR*
PP - Peremptory or Court Ordered Rules
PR - Proposed Repealer
R - Refusal to meet JCAR Objection
RC - Statement of Recommendation
S - Suspension ordered by JCAR
W - Withdrawal to meet JCAR Objections

*Joint Committee on Administrative Rules

ALL RULES ARE LISTED BY PART NUMBER AND HEADING ONLY. (FOR ACTION ON SPECIFIC SECTIONS, PLEASE REFER TO THE SECTIONS AFFECTED INDEX.) IF THERE ARE ANY QUESTIONS, PLEASE CONTACT THE ADMINISTRATIVE CODE DIVISION AT (217) 782-9786.

ABANDONED MINED LANDS RECLAMATION COUNCIL
62 Ill. Adm. Code 2501 Abandoned Mined Lands Reclamation (P-2719; A-8345) (E-2897)(P-11363) (P-14335/91; A-11403) (E-11625)
4 Ill. Adm. Code 1000 Americans With Disabilities Act Grievance Procedure (P-12799)

AGING, DEPARTMENT ON
89 Ill. Adm. Code 240 Community Care Program (E-17398/91; S-1744; W-2955; M-2943) (P-17007/91; PF-1744; M-2930; A-11731) (E-2630) (E-2901) (E-4069;RC-6898) (P-4087; C-5083; A-14565)(P-12251; C-13662)(E-12615; M-16680)(P-11363; A-18767) (A-11403) (E-11625) (O-15183)(P-15203)
89 Ill. Adm. Code 230 Older Americans Act Programs (P-3605; A-15401) (O-15184) (R-15590)

AGRICULTURE, DEPARTMENT OF
8 Ill. Adm. Code 1 Administrative Rules (Formal Administrative Proceedings; Contested Cases; Petitions; Declaratory Rulings; Public Disclosure) (P-8631; A-15850)
4 Ill. Adm. Code 550 Americans With Disabilities Act Grievance Procedure (P-5097; A-11744)
8 Ill. Adm. Code 30 Animal Control Act (P-3618; A-11751)
8 Ill. Adm. Code 110 Animal Diagnostic Laboratory Act (P-3624; A-11416)
8 Ill. Adm. Code 200 Commercial Feed Act (P-9169; A-15889)
8 Ill. Adm. Code 85 Diseased Animals (P-3635; A-11756)
8 Ill. Adm. Code 305 Governor's Agricultural Heritage Award (P-7949; A-13788)
8 Ill. Adm. Code 55 Hatcheries, Poultry Flocks, & Produce Thereof (P-3646; A-11766)
8 Ill. Adm. Code 90 Ill. Dead Animal Disposal Act (P-3653; A-11773)

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AGRICULTURE, DEPARTMENT OF (CONT'D)
8 Ill. Adm. Code 115 Ill. Pseudorabies Control Act (P-3661; A-11781)
8 Ill. Adm. Code 256 Lawncare & Wash Water Rinsate Collection (P-14975)
8 Ill. Adm. Code 40 Livestock Auction Markets (P-3673; A-11793)
8 Ill. Adm. Code 125 Meat & Poultry Inspection Act (PP-1899) (P-1921; A-8349) (PP-11687) (PP-11963) (PP-12234) (PP-16337) (PP-17165)
2 Ill. Adm. Code 700 Organizational Chart, Description, Rulemaking Procedure, & Programs (A-3893)
8 Ill. Adm. Code 235 Seed Arbitration (P-2969; A-8361)
8 Ill. Adm. Code 211 Soil Amendments (P-7955; A-13794)
68 Ill. Adm. Code 580 Specialty Farm Product Buyers Act (P-8671; A-15913)
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TYPE OF RULEMAKING

am = amendment to existing Section
cc = codification changes
n = new Section
r = repeal of existing Section
re = recodified
= renumbered

ACTION CODES

A = Adopted rule
C = Correction
P = Proposed Rule
E = Emergency rule
PP = Peremptory rule
M = Modification
W = Withdrawal
RQ = Request for Correction
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625.80	n	(P-2322; A-10282)
625.Ap.A	n	(P-2322; A-10282)
650.10	n	(P-3253; A-8503)
650.20	n	(P-3253; A-8503)
650.30	n	(P-3253; A-8503)
650.40	n	(P-3253; A-8503)
650.50	n	(P-3253; A-8503)
650.60	n	(P-3253; A-8503)
650.70	n	(P-3253; A-8503)
675.10	n	(P-1779; A-8523)
675.20	n	(P-1779; A-8523)
675.30	n	(P-1779; A-8523)
675.40	n	(P-1779; A-8523)
675.50	n	(P-1779; A-8523)
675.60	n	(P-1779; A-8523)
675.70	n	(P-1779; A-8523)
720.101	n	(P-15684)
720.102	n	(P-15684)
720.103	n	(P-15684)
720.201	n	(P-15684)
720.202	n	(P-15684)
720.203	n	(P-15684)
720.204	n	(P-15684)
725.10	n	(P-3689; A-11432)
725.20	n	(P-3689; A-11432)
725.30	n	(P-3689; A-11432)
725.40	n	(P-3689; A-11432)
725.50	n	(P-3689; A-11432)
725.60	n	(P-3689; A-11432)
725.70	n	(P-3689; A-11432)
750.10	n	(P-8338; A-14418)
750.20	n	(P-8338; A-14418)
750.30	n	(P-8338; A-14418)
750.40	n	(P-8338; A-14418)
750.50	n	(P-8338: A-14418)
750.60	n	(P-8338; A-14418)
750.70	n	(P-8338; A-14418)
775.10	n	(P-13710)
775.20	n	(P-13710)
775.30	n	(P-13710)
775.40	n	(P-13710)
775.50	n	(P-13710)
775.60	n	(P-13710)
775.70	n	(P-13710)
800.10	n	(P-11988)
800.20	n	(P-11988)
800.30	n	(P-11988)
800.40	n	(P-11988)
800.50	n	(P-11988)
800.60	n	(P-11988)
800.70	n	(P-11988)
800.80	n	(P-11988)
800.Ap.A.	n	(P-11988)
850.10	n	(P-8026; A-18069)
850.20	n	(P-8026; A-18069)
850.30	n	(P-8026; A-18069)
850.40	n	(P-8026; A-18069)
850.50	n	(P-8026; A-18069)
850.60	n	(P-8026; A-18069)
850.70	n	(P-8026; A-18069)
875.10	n	(P-8160; A-18844)
875.20	n	(P-8160; A-18844)
875.30	n	(P-8160; A-18844)
875.40	n	(P-8160; A-18844)
875.50	n	(P-8160; A-18844)
875.60	n	(P-8160; A-18844)
875.70	n	(P-8160; A-18844)
875.80	n	(P-8160; A-18844)
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900.20	n	(P-9273)
900.30	n	(P-9273)
900.40	n	(P-9273)

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900.70	n	(P-9273)
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925.120	n	(P-10534)
925.130	n	(P-10534)
925.140	n	(P-10534)
925.150	n	(P-10534)
925.160	n	(P-10534)
925.Ap.A	n	(P-10534)
950.10	n	(P-9216; A-17630)
950.20	n	(P-9216; A-17630)
950.30	n	(P-9216; A-17630)
950.40	n	(P-9216; A-17630)
950.50	n	(P-9216; A-17630)
950.60	n	(P-9216; A-17630)
950.70	n	(P-9216; A-17630)
975.10	n	(P-11709)
975.20	n	(P-11709)
975.30	n	(P-11709)
975.40	n	(P-11709)
975.50	n	(P-11709)
975.60	n	(P-11709)
975.70	n	(P-11709)
1000.10	n	(P-12799)
1000.20	n	(P-12799)
1000.30	n	(P-12799)
1000.40	n	(P-12799)
1000.50	n	(P-12799)
1000.60	n	(P-12799)
1000.70	n	(P-12799)
1025.10	n	(P-13188) (P-13483)
1025.20	n	(P-13188) (P-13483)
1025.30	n	(P-13188) (P-13483)
1025.40	n	(P-13188) (P-13483)
1025.50	n	(P-13188) (P-13483)
1025.60	n	(P-13188) (P-13483)
1025.70	n	(P-13188) (P-13483)
1050.10	n	(P-17399)
1050.20	n	(P-17399)
1050.30	n	(P-17399)
1050.40	n	(P-17399)
1050.50	n	(P-17399)
1050.60	n	(P-17399)
1050.70	n	(P-17399)
1075.10	n	(P-14182)
1075.20	n	(P-14182)
1075.30	n	(P-14182)
1075.40	n	(P-14182)
1075.50	n	(P-14182)
1075.60	n	(P-14182)
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TITLE 8

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1.20	am	(P-8631; A-15850)
1.22	n	(P-8631; A-15850)
1.25	am	(P-8631; A-15850)
1.40	am	(P-8631; A-15850)
1.42	n	(P-8631; A-15850)
1.44	n	(P-8631; A-15850)
1.45	am	(P-8631; A-15850)
1.50	am	(P-8631; A-15850)
1.55	am	(P-8631; A-15850)
1.60	am	(P-8631; A-15850)
1.65	am	(P-8631; A-15850)
1.75	am	(P-8631; A-15850)
1.77	n	(P-8631; A-15850)
1.80	am	(P-8631; A-15850)
1.85	am	(P-8631; A-15850)
1.90	am	(P-8631; A-15850)
1.95	am	(P-8631; A-15850)
1.112	n	(P-8631; A-15850)
1.114	n	(P-8631; A-15850)
1.116	n	(P-8631; A-15850)
1.118	n	(P-8631; A-15850)
1.120	n	(P-8631; A-15850)
1.122	n	(P-8631; A-15850)
1.124	n	(P-8631; A-15850)
1.126	n	(P-8631; A-15850)
1.128	n	(P-8631; A-15850)
1.225	am	(P-8631; A-15850)
1.240	am	(P-8631; A-15850)
1.265	am	(P-8631; A-15850)
1.270	am	(P-8631; A-15850)
1.275	am	(P-8631; A-15850)
1.280	am	(P-8631; A-15850)
1.285	am	(P-8631; A-15850)
1.295	am	(P-8631; A-15850)
1.300	am	(P-8631; A-15850)
1.305	am	(P-8631; A-15850)
1.310	r	(P-8631; A-15850)
1.315	r	(P-8631; A-15850)
1.320	r	(P-8631; A-15850)
1.325	r	(P-8631; A-15850)
1.330	r	(P-8631; A-15850)
1.335	r	(P-8631; A-15850)
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1.425	r	(P-8631; A-15850)
1.435	r	(P-8631; A-15850)
1.445	r	(P-8631; A-15850)
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100.90	am	(P-3624; A-11416)
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105.10	am	(P-3680; A-11799)
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		(P-1921; A-8349)
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200.60	r	(P-9169; A-15889)
200.65	n	(P-9169; A-15889)
200.70	r	(P-9169; A-15889)
200.75	n	(P-9169; A-15889)
200.85	n	(P-9169; A-15889)
200.90	r	(P-9169; A-15889)
200.95	n	(P-9169; A-15889)
200.100	r	(P-9169; A-15889)
200.110	r	(P-9169; A-15889)
200.120	n	(P-9169; A-15889)
200.130	n	(P-9169; A-15889)
200.140	n	(P-9169; A-15889)
200.150	n	(P-9169; A-15889)
200.160	n	(P-9169; A-15889)
200.170	n	(P-9169; A-15889)
200.200	n	(P-9169; A-15889)
200.210	n	(P-9169; A-15889)
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235.20	n	(P-2969; A-8361)
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256.20	n	(P-14975)
256.30	n	(P-14975)
256.40	n	(P-14975)
256.50	n	(P-14975)
256.60	n	(P-14975)
256.70	n	(P-14975)
256.80	n	(P-14975)
256.90	n	(P-14975)
305.10	n	(P-7949; A-13788)
305.20	n	(P-7949; A-13788)
305.30	n	(P-7949; A-13788)
305.40	n	(P-7949; A-13788)
305.50	n	(P-7949; A-13788)
305.60	n	(P-7949; A-13788)
305.70	n	(P-7949; A-13788)
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205.30	n	(E-16318)
205.40	n	(E-16318)
205.50	n	(E-16318)
205.60	n	(E-16318)
205.70	n	(E-16318)
205.80	n	(E-16318)
205.90	n	(E-16318)
205.100	n	(E-16318)
205.110	n	(E-16318)
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416.20	r	(P-12372)
416.30	r	(P-12372)
416.40	r	(P-12372)
416.50	r	(P-12372)
416.60	r	(P-12372)
416.70	r	(P-12372)
416.80	r	(P-12372)
416.90	r	(P-12372)
417.10	r	(P-12379)
417.20	r	(P-12379)
417.30	r	(P-12379)
417.40	r	(P-12379)
417.50	r	(P-12379)
417.60	r	(P-12379)
417.70	r	(P-12379)
417.80	r	(P-12379)
417.90	r	(P-12379)
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422.70	am	(P-6742; A-13069)
422.90	am	(P-6742; A-13069)
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436.40	r	(P-15655/91; A-4520)
436.50	r	(P-15655/91; A-4520)
436.60	am	(P-15655/91; A-4520)
436.70	am	(P-15655/91; A-4520)
436.80	r	(P-15655/91; A-4520)
436.90	r	(P-15655/91; A-4520)
436.100	am	(P-15655/91; A-4520)
436.110	am	(P-15655/91; A-4520)
436.120	r	(P-15655/91; A-4520)
436.130	am	(P-15655/91; A-4520)
436.140	r	(P-15655/91; A-4520)
438.40	am	(P-12377)
440.40	am	(P-6755; A-13077)
440.50	am	(P-6755; A-13077)
440.60	am	(P-6755; A-13077)
440.120	am	(P-6755; A-13077)
440.160	n	(P-6755; A-13077)
450.10	n	(P-2292)
502.30	am	(P-6751; A-12774)
509.10	am	(P-6955)
509.20	am	(P-6955)
509.30	am	(P-6955)
509.40	am	(P-6955)
509.50	am	(P-6955)
509.60	am	(P-6955)
509.70	am	(P-6955)

TITLE 11 (CONT'D)

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509.90	am	(P-6955)
509.95	n	(P-6955)
509.100	am	(P-6955)
509.110	am	(P-6955)
509.130	r	(P-6955)
509.140	am	(P-6955)
509.150	am	(P-6955)
509.160	am	(P-6955)
509.170	am	(P-6955)
509.175	r	(P-6955)
509.190	am	(P-6955)
509.195	r	(P-6955)
509.200	am	(P-6955)
509.210	am	(P-6955)
509.220	am	(P-6955)
509.230	am	(P-6955)
509.240	r	(P-6955)
509.250	r	(P-6955)
509.260	r	(P-6955)
509.265	r	(P-6955)
509.270	am	(P-6955)
1305.120	r	(P-2439)
1305.130	r	(P-2439)
1305.140	am	(P-2439)
1314.10	r	(P-2433; A-8229)
1318.180	n	(P-15388/91;A-7489)
1318.190	n	(P-15388/91;A-7489)
1413.150	am	(P-13218)
1424.100	r	(P-2444; A-11193)
1424.105	r	(P-2444)
1424.170	am	(P-2444) (P-12133)
1424.175	r	(P-12133)
1424.250	am	(P-1266;A-7493)
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1705.20	n	(P-1779)
1705.30	n	(P-1779)
1705.40	n	(P-1779)
1705.50	n	(P-1779)
1705.60	n	(P-1779)
1705.70	n	(P-1779)
1770.10	am	(P-16738)
1770.20	am	(P-16738)
1770.30	am	(P-16738)
1770.40	am	(P-16738)
1770.50	am	(P-16738)
1770.60	am	(P-16738)
1770.80	am	(P-16738)
1770.90	am	(P-16738)
1770.110	am	(P-16738)
1770.120	am	(P-16738)
1770.130	am	(P-16738)
1770.150	am	(P-16738)
1770.160	am	(P-16738)
1770.170	am	(P-16738)
1770.180	am	(P-16738)
1770.190	am	(P-16738)
1770.200	am	(P-16738)
1770.210	n	(P-16738)

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170.11	am	(P-5247; A-11196)
170.12	am	(P-5247; A-11196)
170.13	am	(P-5247; A-11196)
170.14	am	(P-5247; A-11196)
170.17	am	(P-5247; A-11196)
170.20	am	(P-5247; A-11196) (P-13784)
170.30	n	(P-5247; A-11196)
175.10	am	(P-7518/91; A-4058)
520.900	am	(P-89)
520.920	am	(P-13691)
520.930	am	(P-89) (P-13691)
520.1020	am	(P-13691)
520.1030	am	(P-13691)
520.1100	n	(P-89)
520.1110	n	(P-89)
520.1120	n	(P-89)
520.1130	n	(P-89)
520.1140	n	(P-89)
526.10	n	(P-6524; A-17258)
526.20	n	(P-6524; A-17258)
526.30	n	(P-6524; A-17258)
526.40	n	(P-6524; A-17258)
526.50	n	(P-6524; A-17258)
526.60	n	(P-6524; A-17258)
526.70	n	(P-6524; A-17258)
526.80	n	(P-6524; A-17258)
526.90	n	(P-6524; A-17258)
550.20	am	(P-7090; A-14628)
550.30	am	(P-7090; A-14628)
550.35	am	(P-10249/91; A-3464)
550.40	am	(P-7090; A-14628)
550.50	am	(P-7090; A-14628)
550.60	am	(P-7090; A-14628)
1220.100	n	(P-8747/91; A-10163)
1220.110	n	(P-8747/91; A-10163)
1220.120	n	(P-8747/91; A-10163)

TITLE 14 (CONT'D)

1220.130	n	(P-8747/91; A-10163)
1220.140	n	(P-8747/91; A-10163)
1220.150	n	(P-8747/91; A-10163)
1220.160	n	(P-8747/91; A-10163)
1220.200	n	(P-8747/91; A-10163)
1220.210	n	(P-8747/91; A-10163)
1220.220	n	(P-8747/91; A-10163)
1220.230	n	(P-8747/91; A-10163)
1220.240	n	(P-8747/91; A-10163)
1220.250	n	(P-8747/91; A-10163)
1220.300	n	(P-8747/91; A-10163)
1220.310	n	(P-8747/91; A-10163)
1220.320	n	(P-8747/91; A-10163)
1220.330	n	(P-8747/91; A-10163)
1220.400	n	(P-8747/91; A-10163)
1220.410	n	(P-8747/91; A-10163)
1220.500	n	(P-8747/91; A-10163)
1220.510	n	(P-8747/91; A-10163)
1220.520	n	(P-8747/91; A-10163)
1230.100	n	(P-9222)
1230.110	n	(P-9222)
1230.200	n	(P-9222)
1230.210	n	(P-9222)
1230.300	n	(P-9222)
1230.310	n	(P-9222)
1230.400	n	(P-9222)
1230.500	n	(P-9222)
1230.510	n	(P-9222)
1230.520	n	(P-9222)
1230.530	n	(P-9222)
1230.540	n	(P-9222)

TITLE 17

110.4	n	(E-7934; C-8615)
		(P-8289; A-15435)
110.30	am	(P-8289; A-15435)
110.40	am	(P-8289; A-15435)
110.90	am	(P-8289; A-15435)
110.100	am	(P-8289; A-15435)
110.150	am	(P-8289; A-15435)
110.165	n	(P-8289; A-15435)
110.170	am	(P-8289; A-15435)
115.10	am	(P-18045/91; A-4835)
115.30	am	(P-18045/91; A-4835)
115.40	am	(P-18045/91; A-4835)
115.50	am	(P-18045/91; A-4835)
130.30	am	(P-8275; A-15982)
130.40	am	(P-8275; A-15982)
130.50	am	(E-7925) (C-8614)
		(P-8275; A-15982)
130.70	am	(E-7925) (C-8614)
		(P-8275; A-15982)
130.120	am	(E-7925) (C-8614)
		(P-8275; A-15982)
130.130	am	(E-7925) (C-8614)
		(P-8275; A-15982)
130.135	am	(P-8275; A-15982)
150.10	am	(P-18055/91; A-4839)
150.20	am	(P-18055/91; A-4839)
150.30	am	(P-18055/91; A-4839)
150.40	am	(P-18055/91; A-4839)
220.60	am	(P-18050/91; A-7335)
510.10	am	(P-5436; A-11064)
525.30	am	(P-15647/91; A-1826)
530.10	am	(P-7161; A-12470)
530.20	am	(P-7161; A-12470)
530.70	am	(P-7161; A-12470)
		(P-12280)
530.80	am	(P-7161; A-12470)
		(P-12280)
530.90	am	(P-7161; A-12470)
		(P-12280)
530.100	am	(P-7161; A-12470)
		(P-12280)
530.105	am	(P-7161; A-12470)
		(P-12280)
530.110	am	(P-7161; A-12470)
		(P-12280)
530.115	n	(P-7161; A-12470)
530.120	am	(P-7161; A-12470)
550.20	am	(P-5454; A-11078)
550.30	am	(P-5454; A-11078)
570.20	am	(P-5443; A-11069)
570.30	am	(P-5443; A-11069)
570.40	am	(P-5443; A-11069)
590.10	am	(P-14157/91; A-570)
		(P-7189; A-12491)
		(E-16672)
590.20	am	(P-14157/91; A-570)
		(P-7189; A-12491)
590.25	am	(P-7189; A-12491)
590.26	n	(P-7189; A-12491)
590.30	am	(P-7189); A-12491
590.50	am	(P-7189; A-12491)
590.60	am	(P-14157/91; A-570)
		(P-7189; A-12491)
590.70	n	(E-18851)
620.10	n	(P-12302)
620.20	n	(P-12302)
620.30	n	(P-12302)
620.40	n	(P-12302)

TITLE 17 (CONT'D)

620.50	n	(P-12302)
620.Ex.A	n	(P-12302)
650.10	am	(P-5501; A-11131)
650.20	am	(P-5501; A-11131)
650.21	am	(P-5501; A-11131)
650.22	am	(P-5501; A-11131)
650.23	am	(P-5501; A-11131)
650.40	am	(P-5501; A-11131)
650.50	am	(P-5501; A-11131)
650.60	am	(P-5501; A-11131)
660.10	am	(P-5525; A-11150)
660.20	am	(P-5525; A-11150)
660.21	am	(P-5525; A-11150)
660.25	am	(P-5525; A-11150)
660.30	am	(P-5525; A-11150)
660.40	am	(P-5525; A-11150)
660.45	am	(P-5525; A-11150)
660.50	am	(P-5525; A-11150)
660.60	am	(P-5525; A-11150)
670.10	am	(P-5482; A-11116)
		(P-15265)
670.20	am	(P-5482; A-11116)
670.30	am	(P-5482; A-11116)
670.40	am	(P-5482; A-11116)
670.50	am	(P-5482; A-11116)
		(P-15265)
670.60	am	(P-5482; A-11116)
680.10	am	(P-10138; A-15446)
680.20	am	(P-10138; A-15446)
680.60	am	(P-10138; A-15446)
680.70	am	(P-10138; A-15446)
680.80	am	(P-10138; A-15446)
690.20	am	(P-5157; A-11087)
690.30	am	(P-5157; A-11087)
710.10	am	(P-14833/91; A-1843)
		(P-18181)
710.20	am	(P-14833/91; A-1843)
		(P-18181)
710.21	n	(P-14833/91; A-1843)
710.30	am	(P-14833/91; A-1843)
		(P-18181)
710.50	am	(P-14833/91; A-1843)
		(P-18181)
715.10	am	(P-5475; A-11101)
715.20	am	(P-5475; A-11101)
715.40	am	(P-5475; A-11101)
720.10	am	(P-5466; A-11093)
		(P-15260)
720.20	am	(P-5466; A-11093)
720.30	am	(P-5466; A-11093)
		(P-8681; A-15442)
720.40	am	(P-5466; A-11093)
		(P-15260)
730.20	am	(P-5143; A-11041)
730.30	am	(P-5143; A-11041)
740.10	am	(P-5540; A-11162)
740.20	am	(P-5540; A-11162)
810.20	am	(P-17414)
810.35	am	(P-17817/91; A-5267)
		(P-17414)
810.37	am	(P-17817/91; A-5267)
		(P-17414)
810.45	am	(P-17817/91; A-5267)
		(P-6571;A-12526)
		(E-6016) (P-17414)
810.60	am	(P-17817/91; A-5267)
		(P-17414)
810.70	am	(P-17817/91; A-5267)
		(P-17414)
810.90	am	(P-17817/91; A-5267)
830.10	am	(P-17405)
830.20	am	(P-17405)
830.40	am	(P-17405)
830.60	am	(P-18327/91; A-5257)
830.70	am	(P-18327/91; A-5257)
830.80	am	(P-17405)
830.90	am	(P-18327/91; A-5257)
		(P-17405)
850.10	am	(P-4616; A-11029)
850.20	am	(P-4616; A-11029)
		(E-12626) (P-12818)
850.30	am	(P-4616; A-11029)
850.40	am	(E-12626) (P-12818)
850.50	am	(E-12626) (P-12818)
880.10	n	(P-13603/91; A-109)
880.20	n	(P-13603/91; A-109)
880.30	n	(P-13603/91; A-109)
880.40	n	(P-13603/91; A-109)
880.50	n	(P-13603/91; A-109)
890.10	n	(P-17811/91; A-5262)
890.20	n	(P-17811/91; A-5262)
890.30	n	(P-17811/91; A-5262)
890.40	n	(P-17811/91; A-5262)
890.50	n	(P-17811/91; A-5262)
950.20	am	(P-5429; A-11034)
950.40	am	(P-5429; A-11034)
960.30	am	(P-5433; A-11038)
970.10	r	(P-2727; R-8497)
970.20	r	(P-2727; R-8497)
970.30	r	(P-2727; R-8497)
970.40	r	(P-2727; R-8497)

TITLE 17 (CONT'D)

970.50	r	(P-2727; R-8497)
970.60	r	(P-2727; R-8497)
1110.30	am	(P-13594/91; A-103)
1530.30	am	(P-2972; A-8489)
1530.50	am	(P-2972; A-8489)
1530.60	am	(P-2972; A-8489)
1530.Ex.A	n	(P-2972; A-8489)
1530.Ex.B	n	(P-2972; A-8489)
1535.1	n	(P-2979; A-8499)
1535.5	am	(P-2979; A-8499)
1535.50	am	(P-2979; A-8499)
1538.5	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.10	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.20	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.30	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.40	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.50	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.60	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.70	n	(P-755; W-4555)
		(P-4148; A-11108)
1538.80	n	(P-755; W-4555)
		(P-4148; A-11108)
1590.50	am	(P-4132; A-11052)
1590.60	am	(P-4132; A-11052)
1590.70	am	(P-4132; A-11052)
1590.80	am	(P-4132; A-11052)
1590.90	am	(P-4132; A-11052)
1590.100	am	(P-4132; A-11052)
1590.110	am	(P-4132; A-11052)
1590.120	am	(P-4132; A-11052)
2030.15	am	(P-2302; A-8483)
2030.20	am	(P-2302; A-8483)
2520.50	am	(P-2297; A-8479)
3010.40	am	(P-14794/91; A-1806)
3010.50	am	(P-14794/91; A-1806)
3010.70	am	(P-14794/91; A-1806)
3010.80	am	(P-14794/91; A-1806)
3020.20	am	(P-14820/91; A-1833)
3020.40	am	(P-14820/91; A-1833)
3020.50	am	(P-14820/91; A-1833)
3020.70	am	(P-14820/91; A-1833)
3020.80	am	(P-14820/91; A-1833)
3030.30	am	(P-14807/91; A-1816)
3030.50	am	(P-14807/91; A-1816)
3030.60	am	(P-14807/91; A-1816)
3035.40	am	(P-14783/91; A-1797)
3035.70	am	(P-14783/91; A-1797)
3035.80	am	(P-14783/91; A-1797)
4170.100	n	(P-5576)
	n	(P-209/91; A-14200)
4170.110	n	(P-5576)
	n	(P-209/91; A-14200)
4170.120	n	(P-5576)
4170.130	n	(P-5576)
4170.200	n	(P-5576)
	n	(P-209/91; A-14200)
4170.210	n	(P-209/91; A-14200)
4170.250	n	(P-5576)
4170.300	n	(P-5576)
	n	(P-209/91; A-14200)
4170.310	n	(P-209/91; A-14200)
4170.320	n	(P-209/91; A-14200)
4170.330	n	(P-209/91; A-14200)
4170.340	n	(P-209/91; A-14200)
4170.400	n	(P-5576)
	n	(P-209/91; A-14200)
4170.410	n	(P-209/91; A-14200)
4170.420	n	(P-209/91; A-14200)
4170.430	n	(P-209/91; A-14200)
4170.440	n	(P-209/91; A-14200)
4170.500	n	(P-5576)
	n	(P-209/91; A-14200)
4170.550	n	(P-5576)
4170.600	n	(P-5576)
	n	(P-209/91; A-14200)
4170.610	n	(P-209/91; A-14200)
4170.620	n	(P-209/91; A-14200)
4170.630	n	(P-209/91; A-14200)
4170.640	n	(P-209/91; A-14200)
4170.650	n	(P-209/91; A-14200)
4170.700	n	(P-5576)
	n	(P-209/91; A-14200)
4170.710	n	(P-209/91; A-14200)
4170.720	n	(P-209/91; A-14200)
4170.800	n	(P-5576)
4180.120	am	(P-13718)

TITLE 20

210.20	am	(P-17010/91; A-6979)
210.30	am	(P-17010/91; A-6979)
226.605	am	(P-3724; A-12868)
226.640	am	(P-3724; A-12868)
405.20	am	(P-5176; A-10449)
405.50	am	(P-5176; A-10449)

TITLE 20 (CONT'D)

405.60	am	(P-5176; A-10449)
435.10	am	(P-1941; A-8166)
435.12	n	(P-1941; A-8166)
435.15	am	(P-1941; A-8166)
435.20	am	(P-1941; A-8166)
435.30	am	(P-1941; A-8166)
435.40	am	(P-1941; A-8166)
435.50	am	(P-1941; A-8166)
435.60	am	(P-1941; A-8166)
435.70	n	(P-1941; A-8166)
440.10	r	(P-16371)
440.20	r	(P-16371)
504.802	am	(P-3715; A-10430)
504.810	am	(P-3715; A-10430)
504.830	am	(P-3715; A-10430)
504.905	am	(P-3715; A-10430)
504.910	am	(P-3715; A-10430)
504.920	am	(P-3715; A-10430)
504.930	am	(P-3715; A-10430)
525.110	am	(E-3583)
		(P-5166; A-10439)
525.130	am	(P-5166; A-10439)
525.140	am	(E-3583)
		(P-5166; A-10439)
525.150	am	(P-5166; A-10439)
1205.10	n	(P-4803; A-18093)
1205.20	n	(P-4803; A-18093)
1205.30	n	(P-4803; A-18093)
1205.40	n	(P-4803; A-18093)
1205.50	n	(P-4803; A-18093)
1235.10	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.20	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.30	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.40	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.50	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.60	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.70	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.80	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.90	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.100	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.110	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.120	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1235.130	n	(E-17785/91; O-1746)
		(P-17566/91; A-7041)
1285.10	n	(P-3840; A-12595)
1285.20	n	(P-3840; A-12595)
1285.30	n	(P-3840; A-12595)
1285.40	n	(P-3840; A-12595)
1285.50	n	(P-3840; A-12595)
1285.60	n	(P-3840; A-12595)
1285.70	n	(P-3840; A-12595)
1285.80	n	(P-3840; A-12595)
1570.10	n	(P-2732)
1570.20	n	(P-2732)
1570.30	n	(P-2732)
1570.40	n	(P-2732)
1570.50	n	(P-2732)
1570.60	n	(P-2732)
1580.10	n	(P-1948)
1580.20	n	(P-1948)
1580.30	n	(P-1948)
1580.40	n	(P-1948)
1580.50	n	(P-1948)
1720.15	am	(P-15251/91; A-4002)
1720.35	n	(E-727) (P-7756; A-18811)
1800.10	n	(P-10)
1800.20	n	(P-10)
1800.30	n	(P-10)
1800.40	n	(P-10)
1810.100	n	(P-469) (E-732)
1810.110	n	(P-469) (E-732)
1810.200	n	(P-469) (E-732)
1810.210	n	(P-469) (E-732)
1810.220	n	(P-469) (E-732)
1810.230	n	(P-469) (E-732)
1810.240	n	(P-469) (E-732)
1810.250	n	(P-469) (E-732)
1810.300	n	(P-469) (E-732)
1810.400	n	(P-469)
1810.410	n	(P-469) (E-732)
1810.420	n	(P-469) (E-732)
1810.430	n	(P-469) (E-732)
1810.440	n	(P-469) (E-732)
1810.500	n	(P-469) (E-732)
1810.510	n	(P-469) (E-732)
1810.520	n	(P-469) (E-732)
1810.530	n	(P-469) (E-732)

TITLE 20 (CONT'D)

1810.540	n	(P-469) (E-732)
1810.550	n	(P-469) (E-732)
1810.600	n	(P-469) (E-732)
1810.610	n	(P-469) (E-732)
1810.620	n	(P-469) (E-732)
1810.700	n	(P-469) (E-732)
1810.710	n	(P-469) (E-732)
1810.720	n	(P-469) (E-732)
1810.730	n	(P-469) (E-732)
1810.800	n	(P-469) (E-732)
1810.900	n	(P-469) (E-732)
1810.910	n	(P-469) (E-732)
1810.1000	n	(P-469) (E-732)
1810.1010	n	(P-469) (E-732)
1810.1020	n	(P-469) (E-732)
1810.1100	n	(P-469) (E-732)
1810.1110	n	(P-469) (E-732)

TITLE 23

1.230	am	(P-8684; A-18010)
1.240	am	(P-8684; A-18010)
1.420	am	(P-8684; A-18010)
1.440	am	(P-8684; A-18010)
1.720	am	(P-8684; A-18010)
1.730	am	(P-8684; A-18010)
1.735	am	(P-8684; A-18010)
1.736	n	(P-8684; A-18010)
25.120	am	(P-9234; A-18789)
25.220	am	(P-9234; A-18789)
120.10	am	(P-1452; A-10213)
120.30	am	(P-1452; A-10213)
120.40	am	(P-1452; A-10213)
120.50	am	(P-1452; A-10213)
120.60	am	(P-1452; A-10213)
120.90	am	(P-1452; A-10213)
130.10	am	(P-1439; A-9475)
130.20	am	(P-1439; A-9475)
130.30	am	(P-1439; A-9475)
130.40	am	(P-1439; A-9475)
130.45	n	(P-1439; A-9475)
130.50	am	(P-1439; A-9475)
202.10	am	(P-7231; RC-16694)
202.20	am	(P-7231; RC-16694)
202.30	am	(P-7231; RC-16694)
202.40	am	(P-7231; RC-16694)
202.44	n	(P-7231; RC-16694)
202.46	n	(P-7231; RC-16694)
202.50	am	(P-7231; RC-16694)
202.60	am	(P-7231; RC-16694)
226.605	am	(P-3724)
226.640	am	(P-3724)
228.15	n	(P-9253)
228.20	am	(P-9253)
228.25	n	(P-9253)
228.30	am	(P-9253)
228.50	am	(P-9253)
235.10	n	(P-439; A-10181) (RQ-12644)
235.20	n	(P-439; A-10181) (RQ-12644)
235.30	n	(P-439; A-10181) (RQ-12644)
235.40	n	(P-439; A-10181) (RQ-12644) (EC-15186)
235.45	n	(P-439; A-10181) (RQ-12644)
235.50	n	(P-439; A-10181) (RQ-12644)
235.60	n	(P-439; A-10181) (RQ-12644)
235.100	n	(P-439; A-10181) (RQ-12644)
235.110	n	(P-439; A-10181) (RQ-12644)
235.120	n	(P-439; A-10181) (RQ-12644)
235.130	n	(P-439; A-10181) (RQ-12644)
235.135	n	(P-439; A-10181) (RQ-12644)
235.140	n	(P-439; A-10181) (RQ-12644)
235.150	n	(P-439; A-10181) (RQ-12644)
260.40	am	(P-5550; A-14196)
1015.10	n	(P-14852/91; A-4496)
1015.20	n	(P-14852/91; A-4496)
1015.30	n	(P-14852/91; A-4496)
1015.40	n	(P-14852/91; A-4496)
1015.50	n	(P-14852/91; A-4496)
1015.60	n	(P-14852/91; A-4496)
1015.70	n	(P-14852/91; A-4496)
1501.101	am	(P-18022/91; A-12445)
1501.111	r	(P-18022/91; A-12445)
1501.112	r	(P-18022/91; A-12445)
1501.114	n	(P-18022/91; A-12445)
1501.201	r	(P-18022/91; A-12445)
1501.201	n	(P-18022/91; A-12445)
1501.202	r	(P-18022/91; A-12445)
1501.202	n	(P-18022/91; A-12445)
1501.203	r	(P-18022/91; A-12445)

TITLE 23 (CONT'D)

1501.203	n	(P-18022/91; A-12445)
1501.204	r	(P-18022/91; A-12445)
1501.204	n	(P-18022/91; A-12445)
1501.205	r	(P-18022/91; A-12445)
1501.301	am	(P-18022/91; A-12445)
1501.305	am	(P-18022/91; A-12445)
1501.402	am	(P-18022/91; A-12445)
1501.509	am	(P-10524; A-17621)
1501.515	am	(P-10524; A-17621)
1501.517	am	(P-18022/91; A-12445)
1501.518	n	(P-12274)
1501.601	am	(P-18022/91; A-12445)
2700.10	am	(P-4368; A-11206)
2700.20	am	(P-4368; A-11206)
2700.30	am	(P-4368; A-11206)
2700.40	am	(P-4368; A-11206)
2700.50	am	(P-4368; A-11206)
2700.55	am	(P-4368; A-11206)
2700.60	am	(P-4368; A-11206)
2700.70	am	(P-4368; A-11206)
2720.5	am	(P-4386; A-11224)
2720.6	am	(P-4386; A-11224)
2720.10	am	(P-15026/91; A-4060) (P-4386; A-11224)
2720.20	am	(P-4386; A-11224)
2720.25	n	(P-4386; A-11224)
2720.30	am	(P-4386; A-11224)
2720.40	am	(P-1502691; A-4060) (P-4386; A-11224)
2720.50	am	(P-4386; A-11224)
2720.55	am	(P-4386; A-11224)
2720.60	am	(P-4386; A-11224)
2720.70	am	(P-4386; A-11224)
2720.80	am	(P-4386; A-11224)
2720.90	n	(P-4386; A-11224)
2720.105	am	(P-4386; A-11224)
2720.120	am	(P-4386; A-11224)
2720.130	am	(P-4386; A-11224)
2720.200	am	(P-4386; A-11224)
2720.210	am	(P-4386; A-11224)
2720.Ap.A	am	(P-4386; A-11224)
2730.5	am	(P-4416; A-11254)
2730.10	am	(P-4416; A-11254)
2730.20	am	(P-4416; A-11254)
2733.10	am	(P-4423; A-11261)
2733.20	am	(P-4423; A-11261) (P-18121/91; A-6880)
2733.30	am	(P-4423; A-11261) (P-18121/91; A-6880)
2735.10	am	(P-4458; A-11296)
2735.20	am	(P-4458; A-11296)
2735.30	am	(P-4458; A-11296)
2735.40	am	(P-4458; A-11296)
2735.50	am	(P-4458; A-11296)
2735.60	am	(P-4458; A-11296)
2735.70	am	(P-4458; A-11296)
2735.80	am	(P-4458; A-11296)
2735.100	am	(P-4458; A-11296)
2735.Ap.A	am	(P-4458; A-11296)
2760.5	am	(P-4483; A-11321)
2760.10	am	(P-4483; A-11321)
2760.30	am	(P-4483; A-11321)
2760.40	am	(P-4483; A-11321)
2761.10	am	(P-4452; A-11290)
2761.20	am	(P-4452; A-11290)
2761.30	am	(P-4452; A-11290)
2762.10	am	(P-4475; A-11313)
2762.20	am	(P-4475; A-11313)
2762.30	am	(P-4475; A-11313)
2762.40	am	(P-4475; A-11313)
2763.10	n	(P-18129/91; A-7048) (E-16326)
2763.20	n	(P-18129/91; A-7048) (E-16326)
2763.30	n	(P-18129/91; A-7048) (E-16326)
2763.40	n	(P-18129/91; A-7048) (E-16326)
2763.50	n	(P-18129/91; A-7048) (E-16326)
2770.10	#	(P-4491; A-11329)
2770.10	n	(P-4491; A-11329)
2770.20	n	(P-4491; A-11329)
2770.30	#	(P-4491; A-11329)
2770.30	am	(P-4491; A-11329)
2771.10	n	(P-18114/91; A-6873)
2771.20	n	(P-18114/91; A-6873)
2771.30	n	(P-18114/91; A-6873)
2771.Ap.A	n	(P-18114/91; A-6873)
2790.10	am	(P-4431; A-11269)
2790.20	am	(P-4431; A-11269)
2790.30	am	(P-4431; A-11269)
2790.40	am	(P-4431; A-11269)
2790.50	am	(P-4431; A-11269)
2790.60	am	(P-4431; A-11269)
2790.70	am	(P-4431; A-11269)
2790.80	am	(P-4431; A-11269)
2790.90	am	(P-4431; A-11269)
2790.100	am	(P-4431; A-11269)
2790.110	am	(P-4431; A-11269)
2790.120	am	(P-4431; A-11269)

TITLE 23 (CONT'D)

2790.130	am	(P-4431; A-11269)
2790.140	am	(P-4431; A-11269)
2790.Ap.A	r	(P-4431; A-11269)
3030.50	am	(P-15968/91; A-10329)
3040.160	am	(P-7321; A-13084)

TITLE 26

100.30	r	(P-5939/91; A-6982)
125.425	am	(P-5943/91; A-6986)

TITLE 29

205.10	am	(P-5556; A-16394)
205.20	am	(P-5556; A-16394)
205.30	am	(P-5556; A-16394)
205.40	am	(P-5556; A-16394)
700.1	n	(P-17440/91; A-11170)
700.5	n	(P-17440/91; A-11170)
700.10	n	(P-17440/91; A-11170)
700.15	n	(P-17440/91; A-11170)
700.20	n	(P-17440/91; A-11170)
700.25	n	(P-17440/91; A-11170)
700.30	n	(P-17440/91; A-11170)
700.35	n	(P-17440/91; A-11170)
700.40	n	(P-17440/91; A-11170)
700.45	n	(P-17440/91; A-11170)
700.50	n	(P-17440/91; A-11170)
700.55	n	(P-17440/91; A-11170)
700.60	n	(P-17440/91; A-11170)
700.65	n	(P-17440/91; A-11170)

TITLE 32

210.10	n	(P-2003)
210.20	n	(P-2003)
210.30	n	(P-2003)
210.40	n	(P-2003)
210.50	n	(P-2003)
210.60	n	(P-2003)
210.70	n	(P-2003)
331.110	am	(P-2984; A-11479)
331.120	am	(P-2984; A-11479)
331.130	am	(P-2984; A-11479)
331.200	am	(P-2984; A-11479)
331.Ap.A	r	(P-2984; A-11479)
331.Tb.A	r	(P-2984; A-11479)
331.Tb.B	r	(P-2984; A-11479)
331.Tb.C	r	(P-2984; A-11479)
331.Ap.B	am	(P-2984; A-11479)
331.Ap.C	r	(P-2984; A-11479)
340.4010	am	(P-2746; A-11538)
400.120	am	(P-2739; A-11531)
400.140	am	(P-2739; A-11531)
400.150	am	(P-2739; A-11531)
400.160	am	(P-2739; A-11531)
401.70	am	(P-1474; A-9115)
401.110	am	(P-1474; A-9115)
401.130	am	(P-1474; A-9115)
401.140	am	(P-1474; A-9115)
401.150	am	(P-1474; A-9115)
401.160	n	(P-1474; A-9115)
401.Ap.B	am	(P-1474; A-9115)
401.Ap.C	n	(P-1474; A-9115)
504.10	n	(P-4163; A-11544)
504.20	n	(P-4163; A-11544)
504.30	n	(P-4163; A-11544)
504.40	n	(P-4163; A-11544)
504.50	n	(P-4163; A-11544)
504.60	n	(P-4163; A-11544)
504.70	n	(P-4163; A-11544)

TITLE 35

101.101	am	(P-10387; A-18078)
101.103	am	(P-10387; A-18078)
183.105	am	(P-12017; W-12792) (P-12659)
183.110	am	(P-12017; W-12792) (P-12659)
183.115	am	(P-12017; W-12792) (P-12659)
183.120	am	(P-12017; W-12792) (P-12659)
183.125	am	(P-12017; W-12792) (P-12659)
183.130	am	(P-12017; W-12792) (P-12659)
183.131	n	(P-12017; W-12792) (P-12659)
183.132	n	(P-12017; W-12792) (P-12659)
183.133	n	(P-12017; W-12792) (P-12659)
183.134	n	(P-12017; W-12792) (P-12659)
183.135	am	(P-12017; W-12792) (P-12659)
183.140	am	(P-12017; W-12792) (P-12659)
183.145	am	(P-12017; W-12792) (P-12659)
183.150	am	(P-12017; W-12792) (P-12659)

TITLE 35 (CONT'D)

183.160	am	(P-12017; W-12792) (P-12659)
183.170	r	(P-12017; W-12792) (P-12659)
183.210	am	(P-12017; W-12792) (P-12659)
183.215	am	(P-12017; W-12792) (P-12659)
183.220	am	(P-12017; W-12792) (P-12659)
183.225	am	(P-12017; W-12792) (P-12659)
183.230	am	(P-12017; W-12792) (P-12659)
183.231	n	(P-12017; W-12792) (P-12659)
183.235	am	(P-12017; W-12792) (P-12659)
183.235	am	(P-12017; W-12792) (P-12659)
183.240	am	(P-12017; W-12792) (P-12659)
183.245	am	(P-12017; W-12792) (P-12659)
183.250	am	(P-12017; W-12792) (P-12659)
183.255	am	(P-12017; W-12792) (P-12659)
183.310	am	(P-12017; W-12792) (P-12659)
183.315	am	(P-12017; W-12792) (P-12659)
183.320	am	(P-12017; W-12792) (P-12659)
183.325	am	(P-12017; W-12792) (P-12659)
183.330	am	(P-12017; W-12792) (P-12659)
183.335	am	(P-12017; W-12792) (P-12659)
183.340	am	(P-12017; W-12792) (P-12659)
183.345	am	(P-12017; W-12792) (P-12659)
183.350	am	(P-12017; W-12792) (P-12659)
183.355	am	(P-12017; W-12792) (P-12659)
183.360	am	(P-12017; W-12792) (P-12659)
183.365	am	(P-12017; W-12792) (P-12659)
183.370	am	(P-12017; W-12792) (P-12659)
183.406	n	(P-12017; W-12792) (P-12659)
183.410	am	(P-12017; W-12792) (P-12659)
183.415	am	(P-12017; W-12792) (P-12659)
183.420	am	(P-12017; W-12792) (P-12659)
183.425	am	(P-12017; W-12792) (P-12659)
183.430	am	(P-12017; W-12792) (P-12659)
183.435	am	(P-12017; W-12792) (P-12659)
183.440	am	(P-12017; W-12792) (P-12659)
183.445	am	(P-12017; W-12792) (P-12659)
183.450	am	(P-12017; W-12792) (P-12659)
183.Ap.A	am	(P-12017; W-12792) (P-12659)
183.Ap.B	n	(P-12017; W-12792) (P-12659)
190.	n	(P-12017; W-12792) (P-12659)
203.145	am	(P-6631; A-13551)
211.101	am	(P-15875/91;A-7656)
211.122	am	(P-15875/91;A-7656) (P-6606; A-13526)
212.107	n	(P-16564/91; A-7880)
212.108	n	(P-16564/91; A-7880)
212.109	n	(P-16564/91; A-7880)
212.110	am	(P-16564/91; A-7880)
212.113	am	(P-16564/91; A-7880) (P-41; A-8204)
212.210	n	(P-16564/91; A-7880)
212.302	am	(P-16564/91; A-7880)
212.309	am	(P-16564/91; A-7880)
212.316	n	(P-16564/91; A-7880)
212.324	n	(P-16564/91; A-7880)
212.362	n	(P-16564/91; A-7880)
212.424	am	(P-41; A-8204)
212.425	n	(P-16564/91; A-7880)
212.443	am	(P-41; A-8204)
212.445	am	(P-41; A-8204)
212.458	n	(P-16564/91; A-7880)

TITLE 35 (CONT'D)

212.464	n	(P-16564/91; A-7880)
212.II.D	n	(P-16564/91; A-7880)
212.II.E	n	(P-16564/91; A-7880)
212.II.F	n	(P-16564/91; A-7880)
215.100	am	(P-4682; A-13849)
215.109	am	(P-6635; A-13555)
215.123	am	(P-4170; A-13849)
215.215	n	(P-11059/91; A-3132)
215.583	am	(P-4170; A-13849)
216.382	n	(P-9297; A-18075)
218.103	am	(P-4693; A-13864)
218.104	am	(P-6643; A-13564)
218.106	am	(P-4693; A-13864)
218.113	n	(P-6643; A-13564)
218.583	am	(P-4184; A-13864)
218.586	n	(P-4184; A-13864)
219.104	am	(P-6676: A-13597)
219.113	n	(P-6676; A-13597)
219.583	am	(P-4200; A-13883)
219.586	n	(P-4200; A-13883)
232.100	n	(P-14969/91; O-13372; M-16689; A-16592)
232.110	n	(P-14969/91; O-13372; M-16689; A-16592)
232.120	n	(P-14969/91; O-13372; M-16689; A-16592)
232.130	n	(P-14969/91; O-13372; M-16689; A-16592)
232.200	n	(P-14969/91; O-13372; M-16689; A-16592)
232.300	n	(P-14969/91; O-13372; M-16689; A-16592)
232.310	n	(P-14969/91; O-13372; M-16689; A-16592)
232.320	n	(P-14969/91; O-13372; M-16689; A-16592)
232.500	n	(P-14969/91; O-13372; M-16689; A-16592)
232.Ap.A	n	(P-14969/91;O-13372; M-16689; A-16592)
232.Ap.B	n	(P-14969/91; O-13372; M-16689; A-16592)
232.Ap.C	n	(P-14969/91; O-13372; M-16689; A-16592)
240.102	am	(P-12109/91; A-6184)
240.107	n	(P-12109/91; A-6184)
240.122	am	(P-12109/91; A-6184)
240.140	n	(P-12109/91; A-6184)
240.141	n	(P-12109/91; A-6184)
243.108	am	(P-16; A-8185)
243.120	n	(P-16; A-8185)
243.121	r	(P-16; A-8185)
244.101	am	(P-22; A-8191)
244.106	am	(P-22; A-8191)
244.107	am	(P-22; A-8191)
244.121	am	(P-22; A-8191)
244.161	am	(P-22; A-8191)
244.162	am	(P-22; A-8191)
244.163	am	(P-22; A-8191)
244.166	am	(P-22; A-8191)
244.167	am	(P-22; A-8191)
244.168	am	(P-22; A-8191)
244.169	am	(P-22; A-8191)
244.Ap.D	am	(P-22; A-8191)
252.101	am	(P-18202)
252.102	am	(P-18202)
252.103	r	(P-18202)
252.103	n	(P-18202)
252.104	n	(P-18202)
252.105	n	(P-18202)
252.201	am	(P-18202)
252.202	am	(P-18202)
252.203	r	(P-18202)
252.203	n	(P-18202)
252.204	r	(P-18202)
252.204	n	(P-18202)
252.205	n	(P-18202)
252.206	n	(P-18202)
252.301	n	(P-18202)
252.401	n	(P-18202)
253.101	r	(P-18194)
253.102	r	(P-18194)
253.103	r	(P-18194)
253.201	r	(P-18194)
253.202	r	(P-18194)
253.203	r	(P-18194)
253.204	r	(P-18194)
254.101	n	(P-17195)
254.102	n	(P-17195)
254.103	n	(P-17195)
254.104	n	(P-17195)
254.105	n	(P-17195)
254.106	n	(P-17195)
254.107	n	(P-17195)
254.108	n	(P-17195)
254.109	n	(P-17195)
254.110	n	(P-17195)
254.111	n	(P-17195)
254.112	n	(P-17195)
254.130	n	(P-17195)
254.131	n	(P-17195)

TITLE 35 (CONT'D)

254.132	n	(P-17195)
254.133	n	(P-17195)
254.134	n	(P-17195)
254.135	n	(P-17195)
254.136	n	(P-17195)
254.201	n	(P-17195)
254.202	n	(P-17195)
254.203	n	(P-17195)
254.204	n	(P-17195)
254.301	n	(P-17195)
254.302	n	(P-17195)
254.303	n	(P-17195)
254.304	n	(P-17195)
254.305	n	(P-17195)
254.306	n	(P-17195)
254.401	n	(P-17195)
254.402	n	(P-17195)
254.403	n	(P-17195)
254.404	n	(P-17195)
276.101	am	(P-13607; A-10230)
276.102	am	(P-13607; A-10230)
276.204	am	(P-13607; A-10230)
276.206	n	(P-13607; A-10230)
276.301	am	(P-13607; A-10230)
276.303	am	(P-13607; A-10230)
276.304	am	(P-13607; A-10230)
276.307	am	(P-13607; A-10230)
276.308	n	(P-13607; A-10230)
276.309	am	(P-13607; A-10230)
276.310	am	(P-13607; A-10230)
276.311	am	(P-13607; A-10230)
276.401	am	(P-13607; A-10230)
276.402	am	(P-13607; A-10230)
276.701	am	(P-13607; A-10230)
276.702	am	(P-13607; A-10230)
276.703	am	(P-13607; A-10230)
303.203	am	(P-17026/91; W-7511) (P-7302; A-14684)
307.1101	am	(P-17523/91; A-7377)
307.2400	am	(P-17523/91; A-7377)
307.2401	am	(P-17523/91; A-7377)
307.2402	am	(P-17523/91; A-7377)
307.2403	am	(P-17523/91; A-7377)
307.2404	am	(P-17523/91; A-7377)
307.2405	am	(P-17523/91; A-7377)
307.2406	am	(P-17523/91; A-7377)
307.2407	am	(P-17523/91; A-7377)
307.2490	am	(P-17523/91; A-7377)
307.3100	am	(P-17523/91; A-7377)
307.3109	am	(P-17523/91; A-7377)
307.3115	am	(P-17523/91; A-7377)
307.3119	am	(P-17523/91; A-7377)
307.3120	am	(P-17523/91; A-7377)
307.3124	am	(P-17523/91; A-7377)
307.3129	am	(P-17523/91; A-7377)
309.103	am	(P-17471/91; A-7339)
310.103	am	(P-17481/91; A-7346)
310.105	am	(P-17481/91; A-7346)
310.107	am	(P-17481/91; A-7346)
310.110	am	(P-17481/91; A-7346)
310.201	am	(P-17481/91; A-7346)
310.202	am	(P-17481/91; A-7346)
310.210	am	(P-17481/91; A-7346)
310.220	am	(P-17481/91; A-7346)
310.221	am	(P-17481/91; A-7346)
310.222	am	(P-17481/91; A-7346)
310.230	am	(P-17481/91; A-7346)
310.232	am	(P-17481/91; A-7346)
310.233	am	(P-17481/91; A-7346)
310.330	am	(P-17481/91; A-7346)
310.510	am	(P-17481/91; A-7346)
310.611	am	(P-17481/91; A-7346)
310.613	am	(P-17481/91; A-7346)
310.633	am	(P-17481/91; A-7346)
310.635	am	(P-17481/91; A-7346)
320.101	n	(P-12746)
320.102	n	(P-12746)
320.103	n	(P-12746)
320.104	n	(P-12746)
320.105	n	(P-12746)
320.201	n	(P-12746)
320.202	n	(P-12746)
320.203	n	(P-12746)
320.204	n	(P-12746)
320.301	n	(P-12746)
320.302	n	(P-12746)
360.601	am	(P-15202/91; A-5891)
360.602	am	(P-15202/91; A-5891)
365.103	am	(P-3745; A-15073)
365.104	am	(P-3745; A-15073)
365.203	am	(P-3745; A-15073)
365.304	am	(P-3745; A-15073)
365.401	am	(P-3745; A-15073)
365.402	am	(P-3745; A-15073)
365.403	am	(P-3745; A-15073)
365.404	am	(P-3745; A-15073)
365.405	am	(P-3745; A-15073)
365.503	am	(P-3745; A-15073)
365.602	am	(P-3745; A-15073)
365.603	am	(P-3745; A-15073)
365.604	am	(P-3745; A-15073)

TITLE 35 (CONT'D)

365.803	n	(P-3745; A-15073)
365.903	am	(P-3745; A-15073)
365.1101	am	(P-3745; A-15073)
601.105	am	(P-9829/91; O-17792/91) R-1713; A-1585)
607.104	r	(P-16480)
608.101	n	(P-16439)
608.102	n	(P-16439)
608.103	n	(P-16439)
608.201	n	(P-16439)
608.202	n	(P-16439)
608.301	n	(P-16439)
608.302	n	(P-16439)
608.303	n	(P-16439)
608.304	n	(P-16439)
608.305	n	(P-16439)
608.306	n	(P-16439)
608.401	n	(P-16439)
608.402	n	(P-16439)
608.403	n	(P-16439)
608.404	n	(P-16439)
608.501	n	(P-16439)
608.502	n	(P-16439)
608.503	n	(P-16439)
608.504	n	(P-16439)
611.101	am	(P-5582)
611.102	am	(P-5582)
611.110	am	(P-5582)
611.111	am	(P-5582)
611.112	am	(P-5582)
611.295	n	(P-5582)
611.296	n	(P-5582)
611.300	am	(P-5582)
611.301	n	(P-5582)
611.310	am	(P-5582)
611.311	am	(P-5582)
611.526	am	(P-5582)
611.591	#	(P-5582)
611.592	#	(P-5582)
611.600	n	(P-5582)
611.601	am	(P-5582)
611.602	#	(P-5582)
611.602	n	(P-5582)
611.603	#	(P-5582)
611.603	n	(P-5582)
611.604	n	(P-5582)
611.605	n	(P-5582)
611.606	am	(P-5582)
611.607	am	(P-5582)
611.608	n	(P-5582)
611.609	n	(P-5582)
611.610	#	(P-5582)
611.610	n	(P-5582)
611.611	n	(P-5582)
611.630	#	(P-5582)
611.631	n	(P-5582)
611.640	n	(P-5582)
611.641	am	(P-5582)
611.645	am	(P-5582)
611.646	n	(P-5582)
611.647	#	(P-5582)
611.647	am	(P-5582)
611.648	#	(P-5582)
611.648	n	(P-5582)
611.650	r	(P-5582)
611.657	r	(P-5582)
611.658	n	(P-5582)
611.851	am	(P-5582)
611.Ap.A	am	(P-5582)
615.101	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.102	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.103	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.104	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.105	n	(P-10303/91; O-17791/91; R-1702; A-1538) (P-16465)
615.201	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.202	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.203	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.204	n	(P-10303/91; O-17791/91; R-1702; A-1538)

TITLE 35 (CONT'D)

615.205	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.206	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.207	n	(P-10303/91; O-11791/91; R-1702; A-1538)
615.208	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.209	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.210	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.211	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.301	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.302	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.303	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.304	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.305	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.306	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.307	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.401	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.402	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.403	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.404	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.421	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.422	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.423	n	(P-10303/91;-17791/91; R-1702; A-1538)
615.424	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.425	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.441	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.442	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.443	n	(P-10303/91; O-17791/91; R-1702; A-1538
615.444	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.445	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.446	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.447	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.461	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.462	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.463	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.464	n	(P-10303/91; O-17791/91; R-1702; A-1538)

TITLE 35 (CONT'D)

615.501	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.502	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.601	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.602	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.603	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.604	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.621	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.622	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.623	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.624	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.701	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.702	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.703	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.704	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.705	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.721	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.722	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.723	n	(P-10303/91; O-17791/91; R-1702; A-1538)
615.724	n	(P-10303/91; O-17791/91; R-1702; A-1538)
616.101	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.102	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.104	n	(P-9836/91; O-17793/91; R-1723; A-1592) (P-7295; A-14676)
616.105	n	(P-9836/91; O-17793/91; R-1723; A-1592) (P-16473)
616.201	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.202	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.203	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.204	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.205	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.206	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.207	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.208	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.209	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.210	n	(P-9836/91; O-17793/91; R-1723; A-1592)

TITLE 35 (CONT'D)

616.211	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.301	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.302	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.303	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.304	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.305	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.306	n	(P-9836/91;O-17793/91; R-1723; A-1592)
616.307	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.401	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.402	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.421	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.422	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.423	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.424	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.425	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.441	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.442	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.443	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.444	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.445	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.446	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.447	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.462	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.463	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.464	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.501	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.502	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.601	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.602	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.603	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.604	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.605	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.621	n	(P-9836/91; O-17793/91; R-1723; A-1592)

TITLE 35 (CONT'D)

616.622	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.623	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.624	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.625	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.701	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.702	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.703	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.704	n	(P-9836/91; O-17793/91 R-1723; A-1592)
616.705	n	(P-9836/91; O-17793/91; R1723; A-1592)
616.721	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.722	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.723	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.724	n	(P-9836/91; O-17793/91; R-1723; A-1592)
616.725	n	(P-9836/91; O-17793/91; R-1723; A-1592)
617.101	n	(P-9882/91; O-17794/91; R-1734; A-1639)
617.102	n	(P-9882/91; O-17794/91; R-1734; A-1639)
620.450	am	(P-7286; A-14667)
702.181	am	(P-16924)
703.150	am	(P-1058; A-9767)
703.155	am	(P-1058; A-9767)
703.157	am	(P-1058; A-9767)
703.203	am	(P-16930)
703.204	am	(P-16930)
703.207	am	(P-16930)
703.208	n	(P-1058; A-9767)
703.211	am	(P-1058; A-9767)
703.232	n	(P-1058; A-9767
703.280	am	(P-1058; A-8767) (P-9767)
703.283	am	(P-1058; A-8767) (P-9767)
703.Ap.A	am	(P-1058; A-9767) (P-16930)
720.110	am	(P-791; A-9489) (P-9301; A-17636) (P-16776)
720.111	am	(P-791; A-9489) (P-9301; A-17636)
721.102	am	(P-820; A-9519)
721.103	am	(P-820; A-9519) (P-16801)
721.104	am	(P-820; A-9519) (P-16801)
721.106	am	(P-820; A-9519) (P-16801)
721.111	am	(P-16801)
721.120	am	(P-820; A-9519)
721.122	am	(P-9330; A-17666)
721.131	am	(P-820; A-9519) (P-15910/91; A-2600)
721.132	am	(P-820; A-9519)
721.Ap.I	am	(P-9288/91; A-2155)
721.Tb.A	am	(P-9288/91; A-2155)
721.Tb.B	am	(P-9288/91; A-2155)
721.Tb.D	n	(P-820; A-9519)
722.110	am	(P-1112; A-9822)
722.134	am	(P-1112; A-9822)
722.153	am	(P-9358; A-17696)
722.156	am	(P-9358; A-17696)
724.113	am	(P-16970)
724.115	am	(P-16970)
724.119	n	(P-16970)
724.173	am	(P-16970)
724.212	am	(P-1123; A-9833)
724.247	am	(P-9364; A-17702)
724.321	am	(P-16970)
724.322	n	(P-16970)
724.323	n	(P-16970)
724.326	am	(P-16970)
724.328	am	(P-16970)

TITLE 35 (CONT'D)

724.351	am	(P-16970)
724.352	n	(P-16970)
724.353	n	(P-16970)
724.354	am	(P-16970)
724.401	am	(P-16970)
724.402	n	(P-16970)
724.403	am	(P-16970)
724.404	n	(P-16970)
724.410	am	(P-16970)
724.440	am	(P-1123; A-9833)
724.673	am	(P-16970)
724.930	am	(P-1123; A-9833)
724.935	am	(P-1123; A-9833)
725.113	am	(P-875; A-9578) (P-16831)
725.115	am	(P-16831)
724.119	n	(P-16831)
725.173	am	(P-875; A-9578) (P-16831)
725.191	am	(P-9336; A-17672)
725.212	am	(P-875; A-9578)
725.213	am	(P-875; A-9578)
725.247	am	(P-9336; A-17672)
725.321	am	(P-16831)
725.322	am	(P-16831)
725.323	am	(P-16831)
725.324	n	(P-16831)
725.326	am	(P-16831)
725.328	am	(P-16831)
725.354	am	(P-16831)
725.355	n	(P-16831)
725.359	n	(P-16831)
725.360	n	(P-16831)
725.401	am	(P-16831)
725.402	am	(P-16831)
725.403	n	(P-16831)
725.404	n	(P-16831)
725.410	am	(P-16831)
725.440	am	(P-875; A-9578)
725.470	am	(P-875; A-9578)
725.543	am	(P-16831)
725.935	am	(P-875; A-9578)
725.952	am	(P-875; A-9578)
726.130	r	(P-1148; A-9858)
726.131	r	(P-1148; A09858)
726.132	r	(P-1148; A-9858)
726.133	r	(P-1148; A-9858)
726.134	r	(P-1148; A-9858)
726.135	r	(P-1148; A-9858)
726.140	am	(P-1148; A-9858)
726.200	n	(P-1148; A-9858) (P-17028)
726.201	n	(P-1148; A-9858)
726.202	n	(P-1148; A-9858)
726.203	n	(P-1148; A-9858)
726.204	n	(P-1148; A-9858)
726.205	n	(P-1148; A-9858)
726.206	n	(P-1148; A-9858)
726.207	n	(P-1148; A-9858)
726.208	n	(P-1148; A-9858)
726.209	n	(P-1148; A-9858)
726.210	n	(P-1148; A-9858)
726.211	n	(P-1148; A-9858)
726.212	n	(P-1148; A-9858)
726.219	n	(P-1148; A-9858)
726.Ap.A	n	(P-1148; A-9858)
726.Ap.B	n	(P-1148; A-9858)
726.Ap.C	n	(P-1148; A-9858)
726.Ap.D	n	(P-1148; A-9858)
726.Ap.E	n	(P-1148; A-9858)
726.Ap.F	n	(P-1148; A-9858)
726.Ap.G	n	(P-1148; A-9858)
726.Ap.H	n	(P-1148; A-9858)
726.Ap.I	n	(P-1148; A-9858)
726.Ap.J	n	(P-1148; A-9858)
726.Ap.K	n	(P-1148; A-9858)
726.Ap.L	n	(P-1148; A-9858)
726.Tb.A	n	(P-1148; A-9858)
728.103	am	(P-16878)
728.107	am	(P-916; A-9619)
728.109	am	(P-916; A-9619)
728.110	n	(P-916; A-9619)
728.111	n	(P-916; A-9619
728.112	n	(P-916; A-9619)
728.113	n	(P-916; A-9619)
728.133	am	(P-916; A-9619)
728.135	am	(P-916; A-9619) (P-16878)
728.140	am	(P-916; A-9619)
728.141	am	(P-916; A-9619) (P-16878)
728.142	am	(P-916; A-9619)
728.144	am	(P-916; A-9619)
728.Ap.D	am	(P-916; A-9619)
728.Ap.E	am	(P-916; A-9619)
728.Ap.G	am	(P-916; A-9619)
728.Ap.H	am	(P-916; A-9619)
728.Ap.I	n	(P-916; A-9619)
728.Tb.A	am	(P-916; A-9619)
728.Tb.B	am	(P-916; A-9619)
728.Tb.C	am	(P-916; A-9619)

TITLE 35 (CONT'D)

728.Tb.D	am	(P-916; A-9619) (P-16878)
728.Tb.E	am	(P-916; A-9619)
728.Tb.H	n	(P-916; A-9619)
731.110	am	(P-2330; A-7407)
731.111	r	(P-2330; A-7407)
731.112	am	(P-2330; A-7407)
731.113	am	(P-2330; A-7407)
731.114	r	(P-2330; A-7407)
731.120	r	(P-2330; A-7407)
731.121	r	(P-2330; A-7407)
731.122	am	(P-2330; A-7407)
731.130	r	(P-2330; A-7407)
731.131	r	(P-2330; A-7407)
731.132	r	(P-2330; A-7407)
731.133	r	(P-2330; A-7407)
731.134	r	(P-2330; A-7407)
731.140	r	(P-2330; A-7407)
731.141	r	(P-2330; A-7407)
731.142	r	(P-2330; A-7407)
731.143	r	(P-2330; A-7407)
731.144	r	(P-2330; A-7407)
731.145	r	(P-2330; A-7407)
731.150	r	(P-2330; A-7407)
731.151	r	(P-2330; A-7407)
731.152	r	(P-2330; A-7407)
731.153	r	(P-2330; A-7407)
731.161	am	(P-2330; A-7407)
731.162	am	(P-2330; A-7407)
731.170	r	(P-2330; A-7407)
731.171	r	(P-2330; A-7407)
731.172	r	(P-2330; A-7407)
731.173	r	(P-2330; A-7407)
731.174	r	(P-2330; A-7407)
731.190	r	(P-2330; A-7407)
731.191	r	(P-2330; A-7407)
731.192	r	(P-2330; A-7407)
731.193	r	(P-2330; A-7407)
731.194	r	(P-2330; A-7407)
731.195	r	(P-2330; A-7407)
731.196	r	(P-2330; A-7407)
731.197	r	(P-2330; A-7407)
731.198	r	(P-2330; A-7407)
731.199	r	(P-2330; A-7407)
731.200	r	(P-2330; A-7407)
731.202	r	(P-2330; A-7407)
731.203	r	(P-2330; A-7407)
731.204	r	(P-2330; A-7407)
731.205	r	(P-2330; A-7407)
731.206	r	(P-2330; A-7407)
731.207	r	(P-2330; A-7407)
731.208	r	(P-2330; A-7407)
731.209	r	(P-2330; A-7407)
731.210	r	(P-2330; A-7407)
731.211	r	(P-2330; A-7407)
731.Ap.A	am	(P-2330; A-7407)
731.Ap.C	n	(P-2330; A-7407)
738.101	am	(P-16770)
738.110	am	(P-16770)
809.901	r	(P-13017/91; A-130)
809.902	r	(P-13017/91; A-130)
809.903	r	(P-13017/91; A-130)
809.904	r	(P-13017/91; A-130)
809.905	r	(P-13017/91; A-130)
809.906	r	(P-13017/91; A-130)
811.310	am	(P-16962)
813.106	am	(P-16920)
848.101	am	(P-13004/91; A-3114)
848.202	am	(P-13004/91; A-3114)
848.205	am	(P-13004/91; A-3114)
848.206	n	(P-13004/91; A-3114)
848.207	n	(P-13004/91; A-3114)
848.208	n	(P-13004/91; A-3114)
849.101	r	(P-13265/91; A-2880)
849.102	r	(P-13265/91; A-2880)
849.103	r	(P-13265/91; A-2880)
849.104	r	(P-13265/91; A-2880)
849.105	r	(P-13265/91; A-2880)
849.106	r	(P-13265/91; A-2880)
858.207	am	(P-4621)
859.101	n	(P-8348/91; A-6995)
859.102	n	(P-8348/91; A-6995)
859.103	n	(P-8348/91; A-6995)
859.201	n	(P-8348/91; A-6995)
859.202	n	(P-8348/91; A-6995)
859.203	n	(P-8348/91; A-6995)
859.204	n	(P-8348/91; A-6995)
859.205	n	(P-8348/91; A-6995)
859.301	n	(P-8348/91; A-6995)
859.302	n	(P-8348/91; A-6995)
859.303	n	(P-8348/91; A-6995)
875.100	n	(P-10542)
875.101	n	(P-10542)
875.102	n	(P-10542)
875.200	n	(P-10542)
875.201	n	(P-10542)
875.202	n	(P-10542)
875.203	n	(P-10542)
875.204	n	(P-10542)
875.205	n	(P-10542)
875.206	n	(P-10542)

TITLE 35 (CONT'D)

875.207	n	(P-10542)
875.208	n	(P-10542)
875.209	n	(P-10542)
875.210	n	(P-10542)
875.300	n	(P-10542)
875.301	n	(P-10542)
875.302	n	(P-10542)
875.303	n	(P-10542)
875.304	n	(P-10542)
875.305	n	(P-10542)
875.400	n	(P-10542)
875.401	n	(P-10542)
875.402	n	(P-10542)
876.100	n	(E-16191; O-18856; RC-18857)
876.105	n	(E-16191; O-18856; RC-18857)
876.110	n	(E-16191; O-18856; RC-18857)
876.200	n	(E-16191; O-18856; RC-18857)
880.100	n	(P-6127; A-13505)
	r	(P-17861)
880.101	n	(P-6127; A-13505)
	r	(P-17861)
880.102	n	(P-6127; A-13505)
	r	(P-17861)
880.103	n	(P-6127; A-13505)
	r	(P-17861)
880.104	n	(P-6127; A-13505)
	r	(P-17861)
880.105	n	(P-6127; A-13505)
	r	(P-17861)
880.106	n	(P-6127; A-13505)
	r	(P-17861)
880.200	n	(P-6127; A-13505)
	r	(P-17861)
880.201	n	(P-6127; A-13505)
	r	(P-17861)
880.202	n	(P-6127; A-13505)
	r	(P-17861)
880.203	n	(P-6127; A-13505)
	r	(P-17861)
880.300	n	(P-6127; A-13505)
	r	(P-17861)
880.301	n	(P-6127; A-13505)
	r	(P-17861)
1420.101	n	(P-17016/91; A-2594)
1420.102	n	(P-17016/91; A-2594)
1450.100	n	(P-17874)
1450.101	n	(P-17874)
1450.102	n	(P-17874)
1450.103	n	(P-17874)
1450.104	n	(P-17874)
1450.105	n	(P-17874)
1450.106	n	(P-17874)
1450.200	n	(P-17874)
1450.201	n	(P-17874)
1450.202	n	(P-17874)
1450.203	n	(P-17874)
1450.300	n	(P-17874)
1450.301	n	(P-17874)

TITLE 38

180.10	am	(P-14006)
180.22	n	(P-14006)
180.24	n	(P-14006)
180.30	am	(P-14006)
180.92	n	(P-14006)
180.94	n	(P-14006)
180.100	am	(P-14006)
190.40	am	(P-12754; A-17073) (E-12781)
200.100	n	(P-7250; A-12879)
200.110	n	(P-7250; A-12879)
200.155	n	(P-7250; A-12879)
200.160	n	(P-7250; A-12879)
200.165	n	(P-7250; A-12879)
200.200	n	(P-7250; A-12879)
200.205	n	(P-7250; A-12879)
200.210	n	(P-7250; A-12879)
200.215	n	(P-7250; A-12879)
200.220	n	(P-7250; A-12879)
200.221	n	(P-7250; A-12879)
200.225	n	(P-7250; A-12879)
200.230	n	(P-7250; A-12879)
200.235	n	(P-7250; A-12879)
200.240	n	(P-7250; A-12879)
200.245	n	(P-7250; A-12879)
200.250	n	(P-7250; A-12879)
200.270	n	(P-7250; A-12879)
200.280	n	(P-7250; A-12879)
200.290	n	(P-7250; A-12879)
200.310	n	(P-7250; A-12879)
200.320	n	(P-7250; A-12879)
200.400	n	(P-7250; A-12879)
200.402	n	(P-7250; A-12879)
200.404	n	(P-7250; A-12879)
200.406	n	(P-7250; A-12879)
200.408	n	(P-7250; A-12879)
200.410	n	(P-7250; A-12879)

TITLE 38 (CONT'D)		
200.412	n	(P-7250; A-12879)
200.414	n	(P-7250; A-12879)
200.416	n	(P-7250; A-12879)
200.418	n	(P-7250; A-12879)
200.420	n	(P-7250; A-12879)
200.422	n	(P-7250; A-12879)
200.424	n	(P-7250; A-12879)
200.426	n	(P-7250; A-12879)
200.428	n	(P-7250; A-12879)
200.430	n	(P-7250; A-12879)
200.432	n	(P-7250; A-12879)
200.434	n	(P-7250; A-12879)
200.436	n	(P-7250; A-12879)
200.438	n	(P-7250; A-12879)
200.440	n	(P-7250; A-12879)
200.442	n	(P-7250; A-12879)
200.444	n	(P-7250; A-12879)
200.446	n	(P-7250; A-12879)
200.448	n	(P-7250; A-12879)
200.450	n	(P-7250; A-12879)
200.452	n	(P-7250; A-12879)
307.10	n	(P-5391; A-12416)
307.20	n	(P-5391; A-12416)
310.710	r	(P-10125; RC-16693; A-17589) (E-10353; RC-12643)
354.10	n	(P-5395; A-12420)
354.20	n	(P-5395; A-12420)
400.130	am	(P-14394/91; A-4881)
400.141	am	(P-14394/91; A-4881)
400.142	am	(P-14394/91; A-4881)
450.135	n	(P-17570)
450.145	n	(P-17570)
450.160	n	(P-17570)
450.165	n	(P-17570)
450.175	am	(P-17570)
450.210	am	(P-17570)
450.220	am	(P-17570)
450.250	am	(P-12406) (E-12634)
450.255	n	(P-12406) (E-12634)
450.260	am	(P-17570)
450.290	am	(P-12406) (E-12634)
450.410	am	(P-17570)
450.425	n	(P-17570)
450.440	am	(P-2763; A-10463) (E-2915)
450.940	am	(P-17570)
450.1010	am	(P-2763; A-10463) (E-2915)
450.1020	am	(P-17570)
450.1250	am	(P-2763; A-10463) (E-2915)
450.1335	am	(P-2763; A-10463) (E-2915) (P-17570)
450.1340	am	(P-2763; A-10463) (E-2915)
1075.120	am	(P-14406/91; A-4891)
TITLE 41		
100.7	am	(P-15681)
102.1	n	(P-17442/91; A-11172)
102.5	n	(P-17442/91; A-11172)
102.10	n	(P-17442/91; A-11172)
102.15	n	(P-17442/91; A-11172)
102.20	n	(P-17442/91; A-11172)
102.25	n	(P-17442/91; A-11172)
102.30	n	(P-17442/91; A-11172)
102.35	n	(P-17442/91; A-11172)
102.40	n	(P-17442/91; A-11172)
102.45	n	(P-17442/91; A-11172)
102.50	n	(P-17442/91; A-11172)
102.55	n	(P-17442/91; A-11172)
102.60	n	(P-17442/91; A-11172)
102.65	n	(P-17442/91; A-11172)
120.10	am	(P-15823/91; A-6808)
120.900	am	(P-15823/91; A-6808)
120.1000	am	(P-15823/91; A-6808)
120.1010	n	(P-15823/91; A-6808)
120.1020	n	(P-15823/91; A-6808)
120.1030	n	(P-15823/91; A-6808)
120.1040	n	(P-15823/91; A-6808)
120.1041	n	(P-15823/91; A-6808)
120.1100	am	(P-15823/91; A-6808)
120.1200	am	(P-15823/91; A-6808)
120.1280	am	(P-15823/91; A-6808)
120.Ap.B	n	(P-15823/91; A-6808)
140.8	am	(P-14017)
140.12	am	(P-14017)
140.18	n	(P-14017)
140.40	am	(P-14017)
140.50	am	(P-14017)
140.55	am	(P-14017)
140.60	am	(P-14017)
140.65	am	(P-14017)
140.70	am	(P-14017)
140.80	am	(P-14017)
140.90	am	(P-14017)
140.130	am	(P-14017)
140.140	am	(P-14017)
140.150	am	(P-14017)
140.160	am	(P-14017)

TITLE 41 (CONT'D)		
140.171	am	(P-14017)
140.180	am	(P-14017)
140.185	am	(P-14017)
140.220	am	(P-14017)
140.230	am	(P-14017)
140.232	n	(P-14017)
	#	(P-14017)
140.234	n	(P-14017)
	#	(P-14017)
140.236	n	(P-14017)
	#	(P-14017)
140.240	n	(P-14017)
140.250	n	(P-14017)
140.305	am	(P-14017)
140.310	am	(P-14017)
140.390	am	(P-14017)
140.400	am	(P-14017)
140.420	n	(P-14017)
170.800	n	(P-10875/91; A-4845)
170.810	n	(P-10875/91; A-4845)
170.820	n	(P-10875/91; A-4845)
170.830	n	(P-10875/91; A-4845)
170.840	n	(P-10875/91; A-4845)
170.850	n	(P-10875/91; A-4845)
170.860	n	(P-10875/91; A-4845)
170.870	n	(P-10875/91; A-4845)
170.880	n	(P-10875/91; A-4845)
170.890	n	(P-10875/91; A-4845)
170.900	n	(P-10875/91; A-4845)
170.910	n	(P-10875/91; A-4845)
215.1	n	(P-1954)
215.2	n	(P-1954)
215.20	n	(P-1954)
215.30	n	(P-1954)
215.40	n	(P-1954)
215.50	n	(P-1954)
215.60	n	(P-1954)
215.70	n	(P-1954)
270.10	n	(P-14845/91; A-6842)
270.20	n	(P-14845/91; A-6842)
270.30	n	(P-14845/91; A-6842)
270.40	n	(P-14845/91; A-6842)
270.50	n	(P-14845/91; A-6842)
270.60	n	(P-14845/91; A-6842)
270.70	n	(P-14845/91; A-6842)
270.80	n	(P-14845/91; A-6842)
280.10	n	(P-15665)
280.20	n	(P-15665)
280.30	n	(P-15665)
280.40	n	(P-15665)
280.50	n	(P-15665)
280.60	n	(P-15665)
280.65	n	(P-15665)
280.70	n	(P-15665)
280.75	n	(P-15665)
280.80	n	(P-15665)
300.10	n	(P-10560)
300.15	n	(P-10560)
300.20	n	(P-10560)
300.25	n	(P-10560)
300.30	n	(P-10560)
300.35	n	(P-10560)
300.40	n	(P-10560)
300.50	n	(P-10560)
TITLE 44		
1.100	am	(P-12808) (E-13118)
1.350	am	(P-12808) (E-13118)
1.515	n	(P-12808) (E-13118)
1.530	am	(P-12808) (E-13118)
1.610	am	(P-12808) (E-13118)
1.620	am	(P-12808) (E-13118)
1.630	am	(P-12808) (E-13118)
950.110	r	(P-3695; A-12424)
950.120	r	(P-3695; A-12424)
950.130	r	(P-3695; A-12424)
950.140	r	(P-3695; A-12424)
950.150	r	(P-3695; A-12424)
950.160	r	(P-3695; A-12424)
950.170	r	(P-3695; A-12424)
950.180	r	(P-3695; A-12424)
950.210	r	(P-3695; A-12424)
950.220	r	(P-3695; A-12424)
950.230	r	(P-3695; A-12424)
950.240	r	(P-3695; A-12424)
950.250	r	(P-3695; A-12424)
950.260	r	(P-3695; A-12424)
950.270	r	(P-3695; A-12424)
950.280	r	(P-3695; A-12424)
950.290	r	(P-3695; A-12424)
950.300	r	(P-3695; A-12424)
5000.900	n	(P-11378)
5000.910	n	(P-11378)
5000.920	n	(P-11378)
5000.930	n	(P-11378)
5000.940	n	(P-11378)
5000.950	n	(P-11378)
5000.960	n	(P-11378)
5000.970	n	(P-11378)
5010.240	am	(P-10127; A-17595)
5010.710	am	(P-10127; A-17595)

TITLE 44 (CONT'D)

5010.780	am	(P-10127; A-17595)
5010.1160	am	(P-10127; A-17595)
5010.1300	am	(P-10127; A-17595)
5010.1410	n	(P-10127; A-17595)
5030.130	am	(P-18013/91; A-4826)

TITLE 47

100.10	am	(P-14337/91; A-3940)
100.20	am	(P-14337/91; A-3940)
100.30	am	(P-14337/91; A-3940) (P-16707) (E-17136)
100.40	am	(P-14337/91; A-3940)
100.50	am	(P-14337/91; A-3940)
100.85	am	(P-14337/91; A-3940)
100.103	am	(P-14337/91; A-3940)
100.105	am	(P-14337/91; A-3940) (P-16707) (E-17136)
100.106	r	(P-14337/91; A-3940)
100.110	am	(P-14337/91; A-3940)
100.111	r	(P-14337/91; A-3940)
100.113	am	(P-14337/91; A-3940)
100.115	am	(P-14337/91; A-3940)
100.120	am	(P-14337/91; A-3940)
100.Ap.A	am	(P-14337/91; A-3940)
.II.A	n	(P-14337/91; A-3940) (P-16707) (E-17136)
.II.B	n	(P-14337/91; A-3940) (P-16707) (E-17136)
.II.C	n	(P-14337/91; A-3940) (P-16707) (E-17136)
.II.D	n	(P-14337/91; A-3940) (P-16707) (E-17136)
.II.E	n	(P-14337/91; A-3940) (P-16707) (E-17136)
.II.F	n	(P-14337/91; A-3940) (P-16707) (E-17136)
100.Ap.D	am	(P-14337/91; A-3940)
100.Ap.E	r	(P-14337/91; A-3940)
100.Ap.F	r	(P-14337/91; A-3940)
110.210	n	(P-7141)
110.220	n	(P-7141)
110.230	n	(P-7141)
110.240	n	(P-7141)
110.250	n	(P-7141)
110.260	n	(P-7141)
110.270	n	(P-7141)
110.280	n	(P-7141)
110.290	n	(P-7141)
110.300	n	(P-7141)
110.310	n	(P-7141)
110.320	n	(P-7141)
110.330	n	(P-7141)
110.340	n	(P-7141)
110.350	n	(P-7141)
110.360	n	(P-7141)
120.30	am	(P-13993/91; A-3078)
120.55	am	(P-13993/91; A-3078)
120.80	am	(P-13993/91; A-3078)
120.90	am	(P-13993/91; A-3078)
120.110	am	(P-13993/91; A-3078)
120.115	am	(P-13993/91; A-3078)
140.10	r	(P-13241/91; A-2120)
140.20	r	(P-13241/91; A-2120)
140.30	r	(P-13241/91; A-2120)
140.40	r	(P-13241/91; A-2120)
140.50	r	(P-13241/91; A-2120)
140.60	r	(P-13241/91; A-2120)
310.101	am	(P-1961; A-10248)
310.102	am	(P-1961; A-10248)
310.103	am	(P-1961; A-10248)
310.106	am	(P-1961; A-10248)
310.107	am	(P-1961; A-10248)
310.109	am	(P-1961; A-10248)
310.110	am	(P-1961; A-10248)
310.111	am	(P-1961; A-10248)
310.113	am	(P-1961; A-10248)
310.114	am	(P-1961; A-10248)
310.201	am	(P-1961; A-10248)
310.202	am	(P-1961; A-10248)
310.203	am	(P-1961; A-10248)
310.204	am	(P-1961; A-10248)
310.205	am	(P-1961; A-10248)
310.206	am	(P-1961; A-10248)
310.301	am	(P-1961; A-10248)
310.302	am	(P-1961; A-10248)
310.303	am	(P-1961; A-10248)
310.304	am	(P-1961; A-10248)
310.305	am	(P-1961; A-10248)
310.306	am	(P-1961; A-10248)
310.307	am	(P-1961; A-10248)
310.309	am	(P-1961; A-10248)
310.401	am	(P-1961; A-10248)
310.402	am	(P-1961; A-10248)
310.403	am	(P-1961; A-10248)
310.404	am	(P-1961; A-10248)
310.405	am	(P-1961; A-10248)
310.602	am	(P-1961; A-10248)
310.603	am	(P-1961; A-10248)
310.604	am	(P-1961; A-10248)
310.701	am	(P-1961; A-10248)
310.702	am	(P-1961; A-10248)

TITLE 47 (CONT'D)

310.703	am	(P-1961; A-10248)
310.801	am	(P-1961; A-10248)
310.802	am	(P-1961; A-10248)
310.803	am	(P-1961; A-10248)
310.804	am	(P-1961; A-10248)
310.805	am	(P-1961; A-10248)
310.806	am	(P-1961; A-10248)
310.901	am	(P-1961; A-10248)
310.902	am	(P-1961; A-10248)
310.913	am	(P-1961; A-10248)
350.213	n	(P-5185; A-11831) (E-5369;O-8254; M-9137) (C-12794)
370.101	n	(P-11713) (E-11884)
370.102	n	(P-11713) (E-11884)
370.103	n	(P-11713) (E-11884)
370.104	n	(P-11713) (E-11884)
370.105	n	(P-11713) (E-11884)
370.106	n	(P-11713) (E-11884)
370.107	n	(P-11713) (E-11884)
370.108	n	(P-11713) (E-11884)
370.109	n	(P-11713) (E-11884)
370.110	n	(P-11713) (E-11884)
370.111	n	(P-11713) (E-11884)
370.112	n	(P-11713) (E-11884)
370.113	n	(P-11713) (E-11884)
370.201	n	(P-11713) (E-11884)
370.202	n	(P-11713) (E-11884)
370.203	n	(P-11713) (E-11884)
370.204	n	(P-11713) (E-11884)
370.205	n	(P-11713) (E-11884)
370.206	n	(P-11713) (E-11884)
370.207	n	(P-11713) (E-11884)
370.208	n	(P-11713) (E-11884)
370.209	n	(P-11713) (E-11884)
370.210	n	(P-11713) (E-11884)
370.211	n	(P-11713) (E-11884)
370.212	n	(P-11713) (E-11884)
370.301	n	(P-11713) (E-11884)
370.302	n	(P-11713) (E-11884)
370.303	n	(P-11713) (E-11884)
370.304	n	(P-11713) (E-11884)
370.305	n	(P-11713) (E-11884)
370.401	n	(P-11713) (E-11884)
370.402	n	(P-11713) (E-11884)
370.501	n	(P-11713) (E-11884)
370.502	n	(P-11713) (E-11884)
370.503	n	(P-11713) (E-11884)
370.504	n	(P-11713) (E-11884)
370.505	n	(P-11713) (E-11884)
370.506	n	(P-11713) (E-11884)
370.507	n	(P-11713) (E-11884)
370.508	n	(P-11713) (E-11884)
370.601	n	(P-11713) (E-11884)
370.602	n	(P-11713) (E-11884)
370.603	n	(P-11713) (E-11884)
370.604	n	(P-11713) (E-11884)
370.605	n	(P-11713) (E-11884)
370.701	n	(P-11713) (E-11884)
370.702	n	(P-11713) (E-11884)
370.703	n	(P-11713) (E-11884)
370.704	n	(P-11713) (E-11884)
370.705	n	(P-11713) (E-11884)
370.706	n	(P-11713) (E-11884)
370.707	n	(P-11713) (E-11884)
370.801	n	(P-11713) (E-11884)
370.802	n	(P-11713) (E-11884)
370.901	n	(P-11713) (E-11884)
370.902	n	(P-11713) (E-11884)
370.903	n	(P-11713) (E-11884)
370.904	n	(P-11713) (E-11884)
370.1001	n	(P-11713) (E-11884)
370.1002	n	(P-11713) (E-11884)
370.1003	n	(P-11713) (E-11884)
370.1004	n	(P-11713) (E-11884)
370.1005	n	(P-11713) (E-11884)
370.1006	n	(P-11713) (E-11884)
370.1007	n	(P-11713) (E-11884)
370.1101	n	(P-11713) (E-11884)
410.109	am	(P-11007) (E-11345)
600.10	n	(P-11911/91; A-13514)
600.20	n	(P-11911/91; A-13514)
600.30	n	(P-11911/91; A-13514)
600.40	n	(P-11911/91; A-13514)
600.50	n	(P-11911/91; A-13514)
600.60	n	(P-11911/91; A-13514)

TITLE 50

904.30	am	(P-4159; A-12561)
932.20	am	(P-7279)
932.40	am	(P-7279)
932.60	am	(P-7279)
933.10	n	(P-14074)
933.20	n	(P-14074)
933.30	n	(P-14074)
933.40	n	(P-14074)
1408.10	n	(P-8735)
1408.20	n	(P-8735)
1408.30	n	(P-8725)
1408.40	n	(P-8725)

TITLE 50 (CONT'D)

1408.50	n	(P-8725)
1408.60	n	(P-8725)
1408.70	n	(P-8725)
1408.80	n	(P-8725)
1408.90	n	(P-8725)
.II.A	n	(P-8725)
2008.10	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.20	am	(P-14859/91; PF-1743; W-2956; A-2766)
2008.30	am	(P-14859/91; PF-1743; W-2956;A-2766; C-3590)
2008.40	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.50	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.60	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.61	r	(P-14859/91; PF-1743; W-2956; A-2766)
2008.70	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590) (P-8768; A-15452)
2008.71	#	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.71	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.71	am	(P-8768; A-15452)
2008.72	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.72	am	(P-8768; A-15452)
2008.73	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.73	am	(P-8768; A-15452)
2008.74	n	(P-14859/91; PF-1743; W-2956; A-2766)
2008.75	#	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.75	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.80	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590) (P-8768; A-15452)
2008.81	r	(P-14859/91; PF-1743; W-2956; A-2766)
2008.81	n	(P-14859/91; PF-1743; W-2956; A-2766)
2008.81	am	(P-8768; A-15452)
2008.82	am	(P-14859/91; PF-1743; W-2956; A-2766)
2008.90	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590) (P-8768; A-15452)
2008.100	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.101	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.102	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590) (P-8768; A-15452)
2008.103	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590) (P-8768; A-15452)
2008.104	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.110	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.A	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.B	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.C	#	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)

TITLE 50 (CONT'D)

2008.Ap.C	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.C	am	(P-8768; A-15452)
2008.Ap.D	r	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.D	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.D	am	(P-8768; A-15452)
2008.Ap.E	#	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.E	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.E	am	(P-8768; A-15452)
2008.Ap.F	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.F	am	(P-8768; A-15452)
2008.Ap.G	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.G	am	(P-8768; A-15452)
2008.Ap.H	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.H	am	(P-8768; A-15452)
2008.Ap.I	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.I	am	(P-8768; A-15452)
2008.Ap.J	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.J	am	(P-8768; A-15452)
2008.Ap.K	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.K	am	(P-8768; A-15452)
2008.Ap.L	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.L	am	(P-8768; A-15452)
2008.Ap.M	#	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.M	am	(P-14859/91; PF-1743; W-2956; A-2766; C-3590) (P-8768; A-15452)
2008.Ap.N	r	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.N	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.O	#	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2008.Ap.O	am	(P-14859/91; PF-1743 W-2956; A-2766; C-3590)
2008.Ap.P	n	(P-14859/91; PF-1743; W-2956; A-2766; C-3590)
2013.10	am	(P-10375)
2013.20	am	(P-10375)
2013.30	am	(P-10375)
2013.40	am	(P-10375)
2013.50	am	(P-10375)
2013.60	am	(P-10375)
2013.70	am	(P-10375)
2015.10	n	(P-6925; RC-18858)
2015.20	n	(P-6925; RC-18858)
2015.30	n	(P-6925; RC-18858)
2015.40	n	(P-6925; RC-18858)
2015.50	n	(P-6925; RC-18858)
2015.60	n	(P-6925; RC-18858)
2600.50	am	(P-7120)
2720.2	n	(E-7506)
2725.2	n	(E-7502)
3201.10	r	(P-9279; A-17280)
3201.20	r	(P-9279; A-17280)
3201.30	r	(P-9279; A-17280)
3201.40	r	(P-9279; A-17280)
3201.50	r	(P-9279; A-17280)
3201.60	r	(P-9279; A-17280)
3201.70	r	(P-9279; A-17280)
3202.10	r	(P-9288; A-17284)
3202.20	r	(P-9288; A-17284)
3202.30	r	(P-9288; A-17284)
3203.10	r	(P-9284; A-17282)
3203.20	r	(P-9284; A-17282)
3204.10	r	(P-9294; A-17288)
3205.10	r	(P-9291; A-17286)
3205.20	r	(P-9291; A-17286)
3205.30	r	(P-9291; A-17286)

TITLE 50 (CONT'D)

3119.40	am	(P-11055/91; A-126)
3313.40	am	(P-15244/91; A-5329)
6701.Ex.A	am	(P-17013/91; A-5326)
7020.80	am	(P-14511)

TITLE 56

120.100	n	(P-1997)
120.110	n	(P-1997)
120.120	n	(P-1997)
120.130	n	(P-1997)
120.140	n	(P-1997)
120.150	n	(P-1997)
120.160	n	(P-1997)
120.170	n	(P-1997)
250.105	am	(P-15862/91; A-5335)
250.110	r	(P-15862/91; A-5335)
250.115	r	(P-15862/91; A-5335)
250.120	r	(P-15862/91; A-5335)
250.125	r	(P-15862/91; A-5335)
250.130	r	(P-15862/91; A-5335)
250.135	r	(P-15862/91; A-5335)
250.140	r	(P-15862/91; A-5335)
250.145	r	(P-15862/91; A-5335)
250.150	r	(P-15862/91; A-5335)
250.200	am	(P-15862/91; A-5335)
250.500	am	(P-15862/91; A-5335)
250.600	am	(P-15862/91; A-5335)
250.700	am	(P-15862/91; A-5335)
250.705	n	(P-15862/91; A-5335)
250.710	n	(P-15862/91; A-5335)
250.715	n	(P-15862/91; A-5335)
250.805	am	(P-15862/91; A-5335)
250.820	am	(P-15862/91; A-5335)
250.825	am	(P-15862/91; A-5335)
250.855	n	(P-15862/91; A-5335)
250.860	n	(P-15862/91; A-5335)
300.100	r	(P-4626; C-6897; A-13828)
300.110	r	(P-4626; C-6897; A-13828)
300.120	r	(P-4626; C-6897; A-13828)
300.200	r	(P-4626; C-6897; A-13828)
300.210	r	(P-4626; C-6897; A-13828)
300.220	r	(P-4626; C-6897; A-13828)
300.230	r	(P-4626; C-6897; A-13828)
300.300	r	(P-4626; C-6897; A-13828)
300.310	r	(P-4626; C-6897; A-13828)
300.400	r	(P-4626; C-6897; A-13828)
300.410	r	(P-4626; C-6897; A-13828)
300.420	r	(P-4626; C-6897; A-13828)
300.430	r	(P-4626; C-6897; A-13828)
300.440	n	(P-4626; C-6897; A-13828)
300.450	n	(P-4626; C-6897; A-13828)
300.460	n	(P-4626; C-6897; A-13828)
300.500	n	(P-4626; C-6897; A-13828)
300.510	n	(P-4626; C-6897; A-13828)
300.520	n	(P-4626; C-6897; A-13828)
300.600	n	(P-4626; C-6897; A-13828)
300.610	n	(P-4626; C-6897; A-13828)
300.620	n	(P-4626; C-6897; A-13828)
300.630	n	(P-4626; C-6897; A-13828)
300.640	n	(P-4626; C-6897; A-13828)
300.700	n	(P-4626; C-6897; A-13828)
300.710	n	(P-4626; C-6897: A-13828)
300.720	n	(P-4626; C-6897; A-13828)
300.730	n	(P-4626; C-6897; A-13828)
300.740	n	(P-4626; C-6897; A-13828)
300.750	n	(P-4626; C-6897; A-13828)
300.760	n	(P-4626; C-6897; A-13828)
300.770	n	(P-4626; C-6897; A-13828)

TITLE 56 (CONT'D)

300.780	n	(P-4626; C-6897; A-13828)
300.790	n	(P-4626; C-6897; A-13828)
300.800	n	(P-4626; C-6897; A-13828)
300.810	n	(P-4626; C-6897; A-13828)
300.820	n	(P-4626; C-6897; A-13828)
300.830	n	(P-4626; C-6897; A-13828)
300.840	n	(P-4626; C-6897; A-13828)
300.850	n	(P-4626; C-6897; A-13828)
300.860	n	(P-4626; C-6897; A-13828)
300.870	n	(P-4626; C-6897; A-13828)
300.880	n	(P-4626; C-6897; A-13828)
300.890	n	(P-4626; C-6897; A-13828)
300.900	n	(P-4626; C-6897; A-13828)
300.910	n	(P-4626; C-6897; A-13828)
300.920	n	(P-4626; C-6897; A-13828)
300.930	n	(P-4626; C-6897; A-13828)
300.940	n	(P-4626; C-6897; A-13828)
300.950	n	(P-4626; C-6897; A-13828)
300.960	n	(P-4626; C-6897; A-13828)
300.970	n	(P-4626; C-6897; A-13828)
300.980	n	(P-4626; C-6897; A-13828)
300.990	n	(P-4626; C-6897; A-13828)
300.1000	n	(P-4626; C-6897; A-13828)
300.1010	n	(P-4626; C-6897; A-13828)
300.1020	n	(P-4626; C-6897; A-13828)
350.10	am	(P-1; A-8518)
350.280	am	(P-1) (P-3780; A-8518)
350.290	n	(P-3260)
350.300	n	(P-3260)
350.310	n	(P-3260)
350.400	n	(P-4645; C-6057)
350.410	n	(P-4645; C-6057)
350.420	n	(P-4645; C-6057)
350.430	n	(P-4645; C-6057)
350.440	n	(P-4645; C-6057)
350.450	n	(P-4645; C-6057)
350.460	n	(P-4645; C-6057)
350.Ap.A	n	(P-4645; C-6057)
350.Ap.B	n	(P-4645; C-6057)
350.Ap.C	n	(P-4645; C-6057)
350.Ap.D	n	(P-4645; C-6057)
350.Ap.E	n	(P-4645; C-6057)
360.100	n	(P-8838; A-16586)
360.110	n	(P-8838; A-16586)
360.120	n	(P-8838; A-16586)
360.130	n	(P-8838; A-16586)
360.140	n	(P-8838; A-16586)
360.150	n	(P-8838; A-16586)
360.160	n	(P-8838; A-16586)
360.170	n	(P-8838; A-16586)
360.180	n	(P-8838; A-16586)
1700.10	n	(P-1469)
1700.20	n	(P-1469)
1700.30	n	(P-1469)
1700.40	n	(P-1469)
1700.50	n	(P-1469)
1700.60	n	(P-1469)
2600.20	am	(P-11865/91; A-13241)
2610.75	n	(P-11894/91; A-13272)
2610.130	am	(P-6905; A-17266)
2620.10	r	(P-12964/91; A-6175)
2620.20	r	(P-12964/91; A-6175)
2620.30	r	(P-12964/91; A-6175)
2620.40	r	(P-12964/91; A-6175)
2620.50	r	(P-12964/91; A-6175)
2620.60	r	(P-12964/91; A-6175)
2620.70	r	(P-12964/91; A-6175)
2620.80	r	(P-12964/91; A-6175)
2620.90	r	(P-12964/91; A-6175)
2620.100	r	(P-12964/91; A-6175)
2625.55	am	(P-5124)
2630.82	am	(P-8081/91; A-1524) (P-1154591; A-6796)
2630.83	am	(P-8081/91; A-1524)
2650.10	am	(P-9202; A-17969)
2650.20	am	(P-9202; A-17969)

TITLE 56 (CONT'D)

2650.30	am	(P-9202; A-17969)
2650.40	am	(P-9202; A-17969)
2650.310	n	(P-9202; A-17969)
2650.320	n	(P-9202; A-17969)
2650.330	n	(P-9202; A-17969)
2650.340	n	(P-9202; A-17969)
2650.350	n	(P-9202; A-17969)
2712.201	am	(P-17853)
2712.203	am	(P-17853)
2712.205	am	(P-17853)
2712.207	am	(P-17853)
2720.1	am	(P-14343/91; A-2556)
2720.2	n	(E-7506)
2720.5	am	(P-14343/91; A-2556)
2720.7	n	(P-14343/91; A-2556)
2720.10	am	(P-14343/91; A-2556)
2720.108	n	(P-14343/91; A-2556)
2720.130	am	(P-14343/91; A-2556)
2720.215	n	(P-14343/91; A-2556)
2720.240	am	(P-14343/91; A-2556)
2720.315	am	(P-14343/91; A-2556)
2725.2	n	(E-7502)
2725.100	am	(P-3734)
2725.105	am	(P-14014/91; A-2122)
2725.115	am	(P-14014/91; A-2122)
2725.225	am	(P-3734)
2725.237	n	(P-13252/91; A-113)
2725.245	am	(P-3734)
2732.203	n	(P-3248; A-8173)
2732.220	n	(P-3248; A-8173)
2732.305	n	(P-785; A-12159)
2760.110	am	(P-14023/91; A-3993)
2760.120	am	(P-14023/91; A-3993)
2760.125	am	(P-14023/91; A-3993)
2760.130	am	(P-14023/91; A-3993)
2760.145	am	(P-14023/91; A-3993)
2760.150	am	(P-14023/91; A-3993)
2765.5	am	(P-12006)
2765.45	am	(P-14032/91; A-2131)
2765.50	am	(P-12006)
2765.55	am	(P-14032/91; A-2131)
2765.60	am	(P-14032/91; A-2131)
2765.64	n	(P-12006)
2765.66	am	(P-12006)
2765.67	n	(P-11034/91; A-12165)
2765.68	am	(P-14032/91; A-2131)
2765.69	n	(P-11034/91; A-12165)
2765.70	am	(P-12006)
2765.74	n	(P-12006)
2765.75	am	(P-12006)
2765.225	n	(P-11034/91; A-12165)
2765.228	n	(P-11034/91; A-12165)
2765.230	n	(P-11034/91; A-12165)
2765.325	am	(P-11034/91; A-12165)
2765.328	n	(P-11034/91; A-12165)
2765.328	am	(P-15638)
2765.329	n	(P-15638)
2765.330	n	(P-15638)
2765.333	am	(P-15638)
2765.334	am	(P-15638)
2765.335	am	(P-15638)
2770.100	am	(P-15625)
2770.105	am	(P-15625)
2770.110	am	(P-13257/91; A-118)
		(P-15625)
5300.10	am	(P-10521/91; A-7838)
5300.20	am	(P-10521/91; A-7838)
5300.30	am	(P-10521/91; A-7838)
5300.40	am	(P-10521/91; A-7838)
5300.210	am	(P-10521/91; A-7838)
5300.310	am	(P-10521/91; A-7838)
5300.450	am	(P-10521/91; A-7838)
5300.460	am	(P-10521/91; A-7838)
5300.550	r	(P-10521/91; A-7838)
5300.560	am	(P-10521/91; A-7838)
5300.570	r	(P-10521/91; A-7838)
5300.610	am	(P-10521/91; A-7838)
5300.620	am	(P-10521/91; A-7838)
5300.630	am	(P-10521/91; A-7838)
5300.640	am	(P-10521/91; A-7838)
5300.650	am	(P-10521/91; A-7838)
5300.660	am	(P-10521/91; A-7838)
5300.720	am	(P-10521/91; A-7838)
5300.730	am	(P-10521/91; A-7838)
5300.735	n	(P-10521/91; A-7838)
5300.745	n	(P-10521/91; A-7838)
5300.750	am	(P-10521/91; A-7838)
5300.760	am	(P-10521/91; A-7838)
5300.765	n	(P-10521/91; A-7838)
5300.770	r	(P-10521/91; A-7838)
5300.782	r	(P-10521/91; A-7838)
5300.783	r	(P-10521/91; A-7838)
5300.784	r	(P-10521/91; A-7838)
5300.785	r	(P-10521/91; A-7838)
5300.786	r	(P-10521/91; A-7838)
5300.787	r	(P-10521/91; A-7838)
5300.825	am	(P-10521/91; A-7838)
5300.865	am	(P-10521/91; A-7838)
5300.920	am	(P-10521/91; A-7838)
5300.930	am	(P-10521/91; A-7838)
5300.940	am	(P-10521/91; A-7838)

TITLE 56 (CONT'D)

5300.950	am	(P-10521/91; A-7838)
5300.960	am	(P-10521/91; A-7838)
5300.1145	n	(P-10521/91; A-7838)
5300.1150	am	(P-10521/91; A-7838)
5300.1160	am	(P-10521/91; A-7838)
5400.110	am	(P-1490; A-8529)
		(E-1693)
5400.210	am	(P-1490; A-8529)
		(E-1693)
5400.310	am	(P-1490; A-8529)
		(E-1693)
6000.50	am	(P-5399; A-12436)
6000.340	n	(P-7543; A-15415)
		(E-7716)

TITLE 59

101.100	n	(P-14363/91; A-2137)
		(E-14663/91)
103.10	am	(P-14078)
103.11	n	(P-14078)
103.15	n	(P-14078)
103.20	am	(P-14078)
103.25	n	(P-14078)
103.30	n	(P-14078)
103.40	r	(P-14078)
103.50	r	(P-14078)
103.60	n	(P-14078)
103.65	r	(P-14078)
103.70	am	(P-14078)
103.80	am	(P-14078)
103.90	am	(E-2643) (P-14078)
103.95	n	(P-14078)
103.100	am	(P-14078)
103.110	am	(P-14078)
103.120	am	(P-14078)
103.130	am	(P-14078)
103.140	r	(P-14078)
103.150	am	(P-14078)
103.160	am	(P-14078)
103.165	n	(P-14078)
103.170	am	(P-14078)
103.180	am	(P-14078)
103.190	am	(P-14078)
103.200	r	(P-14078)
103.210	n	(P-14078)
113.10	am	(P-17887)
113.15	n	(P-17887)
113.40	am	(P-17887)
113.50	am	(P-17887)
113.55	n	(P-17887)
113.60	am	(P-17887)
113.80	am	(P-17887)
113.130	r	(P-17887)
115.120	am	(P-17923)
115.300	am	(P-17923; W-18129)
115.310	am	(P-17923)
115.320	am	(E-2676) (P-17923)
115.410	am	(P-17923)
115.330	n	(P-17923)
119.260	am	(E-2662)
120.70	am	(E-2652)
121.10	n	(P-15715)
121.15	n	(P-15715)
121.20	n	(P-15715)
121.25	n	(P-15715)
121.30	n	(P-15715)
121.35	n	(P-15715)
121.40	n	(P-15715)
121.45	n	(P-15715)
121.50	n	(P-15715)
121.55	n	(P-15715)
121.60	n	(P-15715)
121.65	n	(P-15715)
121.70	n	(P-15715)
121.75	n	(P-15715)
121.80	n	(P-15715)
121.85	n	(P-15715)
121.90	n	(P-15715)
121.95	n	(P-15715)
121.100	n	(P-15715)
121.105	n	(P-15715)
121.110	n	(P-15715)
121.115	n	(P-15715)
121.120	n	(P-15715)
121.125	n	(P-15715)
121.130	n	(P-15715)
121.135	n	(P-15715)
121.140	n	(P-15715)
121.145	n	(P-15715)
121.Ap.A	n	(P-15715)
122.10	n	(P-15691)
122.15	n	(P-15691)
122.20	n	(P-15691)
122.25	n	(P-15691)
122.30	n	(P-15691)
122.35	n	(P-15691)
122.40	n	(P-15691)
122.45	n	(P-15691)
122.50	n	(P-15691)
122.55	n	(P-15691)
122.60	n	(P-15691)

TITLE 59 (CONT'D)

122.65	n	(P-15691)
122.70	n	(P-15691)
122.75	n	(P-15691)
122.80	n	(P-15691)
122.85	n	(P-15691)
122.Ap.A	n	(P-15691)
125.70	am	(E-2672)
130.10	r	(P-8842; A-15993)
130.11	r	(P-8842; A-15993)
130.15	r	(P-8842; A-15993)
130.20	r	(P-8842; A-15993)
130.30	r	(P-8842; A-15993)
130.40	r	(P-8842; A-15993)
130.50	r	(P-8842; A-15993)
130.51	r	(P-8842; A-15993)
130.60	r	(P-8842; A-15993)
130.70	r	(P-8842; A-15993)
130.80	r	(P-8842; A-15993)
130.100	r	(P-8842; A-15993)
130.105	r	(P-8842; A-15993)
130.110	am	(E-2656; A-15993)
130.110	r	(P-8842; A-15993)
130.120	r	(P-8842; A-15993)
130.130	r	(P-8842; A-15993)
130.140	r	(P-8842; A-15993)
130.150	r	(P-8842; A-15993)
130.160	r	(P-8842; A-15993)
130.170	r	(P-8842; A-15993)
130.180	r	(P-8842; A-15993)
130.190	r	(P-8842; A-15993)
130.200	r	(P-8842; A-15993)
130.210	r	(P-8842; A-15993)
130.220	r	(P-8842; A-15993)
130.230	r	(P-8842; A-15993)
130.240	r	(P-8842; A-15993)
130.250	r	(P-8842; A-15993)
130.Tb.A	r	(P-8842; A-15993)
130.Tb.B	r	(P-8842; A-15993)
132.10	n	(P-7;A-9006;RC-8252) (E-211)
132.15	n	(P-7;A-9006;RC-8252) (E-211)
132.20	n	(P-7;A-9006;RC-8252) (E-211)
132.25	n	(P-7;A-9006;RC-8252) (E-211)
132.30	n	(P-7;A-9006;RC-8252) (E-211)
132.35	n	(P-7;A-9006;RC-8252) (E-211)
132.40	n	(P-7;A-9006;RC-8252) (E-211)
132.45	n	(P-7;A-9006;RC-8252) (E-211)
132.50	n	(P-7;A-9006;RC-8252) (E-211)
132.55	n	(P-7;A-9006;RC-8252) (E-211)
132.60	n	(P-7;A-9006;RC-8252) (E-211)
132.65	n	(P-7;A-9006;RC-8252) (E-211)
132.70	n	(P-7;A-9006;RC-8252) (E-211)
132.75	n	(P-7;A-9006;RC-8252) (E-211)
132.80	n	(P-7;A-9006;RC-8252) (E-211)
132.85	n	(P-7;A-9006;RC-8252) (E-211)
132.90	n	(P-7;A-9006;RC-8252) (E-211)
132.95	n	(P-7;A-9006;RC-8252) (E-211)
132.100	n	(P-7;A-9006;RC-8252) (E-211)
132.105	n	(P-7;A-9006;RC-8252) (E-211)
132.110	n	(P-7;A-9006;RC-8252) (E-211)
132.115	n	(P-7;A-9006;RC-8252) (E-211)
132.120	n	(P-7;A-9006;RC-8252) (E-211)
132.125	n	(P-7;A-9006;RC-8252) (E-211)
132.130	n	(P-7;A-9006;RC-8252) (E-211)
132.135	n	(P-7;A-9006;RC-8252) (E-211)
132.140	n	(P-7;A-9006;RC-8252) (E-211)
132.145	n	(P-7;A-9006;RC-8252) (E-211)
132.150	n	(P-7;A-9006;RC-8252) (E-211)
132.155	n	(P-7;A-9006;RC-8252) (E-211)
132.160	n	(P-7;A-9006;RC-8252) (E-211)
132.165	n	(P-7;A-9006;RC-8252) (E-211)
132.170	n	(P-7;A-9006;RC-8252) (E-211)
132.Ap.A	n	(P-7;A-9006;RC-8252) (E-211)
132.Ap.B	n	(P-7;A-9006;RC-8252) (E-211)
.Tb.A	n	(P-7;A-9006;RC-8252) (E-211)
.Tb.B	n	(P-7;A-9006;RC-8252) (E-211)
.Tb.C	n	(P-7;A-9006;RC-8252) (E-211)
135.30	am	(E-2648)
400.10	n	(P-11996)
400.20	n	(P-11996)
400.30	n	(P-11996)
400.40	n	(P-11996)
400.50	n	(P-11996)
400.60	n	(P-11996)
400.70	n	(P-11996)
400.80	n	(P-11996)
400.90	n	(P-11996)
400.100	n	(P-11996)
400.110	n	(P-11996)
400.120	n	(P-11996)

TITLE 62

200.12	am	(P-3267; A-11449)
200.201	am	(P-3267; A-11449)
200.402	am	(P-3267; A-11449)
200.500	am	(P-3267; A-11449)
200.600	am	(P-3267; A-11449)
200.603	am	(P-3267; A-11449)
200.604	am	(P-3267; A-11449)
200.806	am	(P-3267; A-11449)
200.Ap.B	n	(P-3267; A-11449)
220.190	am	(P-3316; A-11463)
240.10	am	(P-3282; A-15513)
240.131	n	(P-13722)
240.132	n	(P-13722)
240.133	n	(P-13722)
240.160	am	(P-13722)
240.170	am	(P-13722)
240.180	am	(P-13722)
240.190	am	(P-13722)
240.195	am	(P-13722)
240.500	n	(P-3282; A-15513)
240.510	r	(P-3282; A-15513)
240.510	n	(P-3282; A-15513)
240.520	r	(P-3282; A-15513)
240.520	n	(P-3282; A-15513)
240.530	r	(P-3282; A-15513)
240.530	n	(P-3282; A-15513)
240.540	n	(P-3282; A-15513)
240.550	n	(P-3282; A-15513)
240.610	am	(P-3282; A-15513)
240.630	am	(P-3282; A-15513)
240.640	am	(P-3282; A-15513)
240.710	am	(P-3282; A-15513)
240.760	am	(P-3282; A-15513)
240.780	am	(P-3282; A-15513)
240.995	r	(P-14365/91; P-14679/91; A-2576)
240.1110	am	(P-3282; A-15513)
240.1130	am	(P-3282; A-15513)
240.1150	am	(P-3282; A-15513)
240.1160	r	(P-3282; A-15513)
240.1160	n	(P-3282; A-15513)
240.1170	am	(P-3282; A-15513)
240.1180	r	(P-3282; A-15513; EC-18859) (RQ-17378)
240.1400	r	(P-14365/91; P-14679/91; A-2576)
240.1400	n	(P-14365/91; P-14679/91; A-2576)
240.1405	r	(P-14365/91; P-14679/91; A-2576)
240.1410	r	(P-14365/91; P-14679/91; A-2576)
240.1410	n	(P-14365/91; P-14679/91; A-2576)
240.1420	r	(P-14365/91 P-14679/91; A-2576)
240.1420	n	(P-14365/91; P-14679/91; A-2576)
240.1430	r	(P-14365/91; P-14679/91; A-2576)
240.1430	am	(P-3282; A-15513)

TITLE 62 (CONT'D)

240.1440	r	(P-14365/91; P-14679/91; A-2576)
240.1440	n	(P-14365/91; P-14679/91; A-2576)
240.1450	r	(P-14365/91; P-14679/91; A-2576)
240.1450	am	(P-14365/91; P-14679/91; A-2576) (P-3282; A-15513)
240.1460	r	(P-14365/91; P-14679/91; A-2576)
240.1460	am	(P-14365/91; P-14679/91; A-2576) (P-3282; A-15513)
240.1470	r	(P-14365/91; P-14679/91; A-2576)
240.1500	r	(P-14365/91; P-14679/91; A-2576)
240.1500	n	(P-14365/91; P-14679/91; A-2576)
240.1510	n	(P-14365/91; P-14679/91; A-2576)
240.1520	n	(P-14365/91; P-14679/91; A-2576)
240.1530	n	(P-14365/91; P-14679/91; A-2576)
1701.Ap.A	am	(P-10644)
1702.11	am	(P-10631)
1702.12	am	(P-10631)
1702.17	am	(P-10631)
1702.18	am	(P-10631)
1705.21	am	(P-10790)
1761.5	n	(P-10596)
1761.11	am	(P-10596)
1761.12	am	(P-10596)
1764.19	am	(P-10831)
1772.12	am	(P-10762)
1773.13	am	(P-10768)
1773.15	am	(P-10768)
1773.20	am	(P-10768)
1773.21	am	(P-10768)
1774.11	am	(P-10793)
1774.13	am	(P-10793)
1774.15	am	(P-10793)
1775.1	r	(P-10590)
1775.11	r	(P-10590)
1775.13	r	(P-10590)
1777.17	am	(P-10640)
1778.15	am	(P-10758)
1779.19	am	(P-10835)
1780.21	am	(P-10839)
1780.33	am	(P-10839)
1780.38	am	(P-10839)
1783.19	am	(P-10849)
1784.14	am	(P-10853)
1784.18	am	(P-10853)
1784.27	am	(P-10853)
1785.13	am	(P-10784)
1800.11	am	(P-10607)
1800.40	am	(P-10607)
1800.50	am	(P-10607)
1816.42	am	(P-10695)
1816.43	am	(P-10695)
1816.49	am	(P-10695)
1816.84	am	(P-10695)
1816.116	am	(P-10695)
1816.117	am	(P-10695)
1816.151	am	(P-10695)
1817.42	am	(P-10726)
1817.42	am	(P-10726)
1817.43	am	(P-10726)
1817.49	am	(P-10726)
1817.84	am	(P-10726)
1817.116	am	(P-10726)
1817.117	am	(P-10726)
1817.151	am	(P-10726)
1817.182	am	(P-10726)
1827.12	am	(P-10803)
1843.12	am	(P-10807)
1843.13	am	(P-10807)
1843.14	am	(P-10807)
1843.15	am	(P-10807)
1843.16	r	(P-10807)
1843.17	r	(P-10807)
1843.20	r	(P-10807)
1843.21	r	(P-10807)
1845.12	am	(P-10619)
1845.13	am	(P-10619)
1845.17	am	(P-10619)

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1845.18	am	(P-10619)
1845.19	r	(P-10619)
1845.20	am	(P-10619)
1846.17	am	(P-10691)
1846.18	am	(P-10691)
1847.1	n	(P-10569)
1847.2	n	(P-10569)
1847.3	n	(P-10569)
1847.4	n	(P-10569)
1847.5	n	(P-10569)
1847.6	n	(P-10569)
1847.7	n	(P-10569)
1847.8	n	(P-10569)
1847.9	n	(P-10569)
1848.1	n	(P-10669)
1848.2	n	(P-10669)
1848.3	n	(P-10669)
1848.5	n	(P-10669)
1848.6	n	(P-10669)
1848.7	n	(P-10669)
1848.8	n	(P-10669)
1848.9	n	(P-10669)
1848.11	n	(P-10669)
1848.12	n	(P-10669)
1848.13	n	(P-10669)
1848.15	n	(P-10669)
1848.16	n	(P-10669)
1848.17	n	(P-10669)
1848.18	n	(P-10669)
1848.19	n	(P-10669)
1848.20	n	(P-10669)
1848.21	n	(P-10669)
1848.22	n	(P-10669)
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580.30	n	(P-8671; A-15913)
580.40	n	(P-8671; A-15913)
580.50	n	(P-8671; A-15913)
750.1010	am	(P-15056)
750.3000	am	(E-12785) (P-15056)
750.3010	am	(P-15056)
750.3055	n	(P-15056)
750.4000	n	(E-12785) (P-15056)
750.4010	n	(E-12785) (P-15056)
870.100	n	(P-12094/91; A-3096)
870.105	n	(P-12094/91; A-3096)
870.110	n	(P-12094/91; A-3096)
870.115	n	(P-12094/91; A-3096)
870.120	n	(P-12094/91; A-3096)
870.200	n	(P-12094/91; A-3096)
870.210	n	(P-12094/91; A-3096)
870.215	n	(P-12094/91; A-3096)
870.220	n	(P-12094/91; A-3096)
870.225	n	(P-12094/91; A-3096)
870.230	n	(P-12094/91; A-3096)
870.235	n	(P-12094/91; A-3096)
870.240	n	(P-12094/91; A-3096)
870.245	n	(P-12094/91; A-3096)
870.300	n	(P-12094/91; A-3096)
870.305	n	(P-12094/91; A-3096)
870.310	n	(P-12094/91; A-3096)
870.315	n	(P-12094/91; A-3096)
870.320	n	(P-12094/91; A-3096)
870.325	n	(P-12094/91; A-3096)
870.400	n	(P-12094/91; A-3096)
870.405	n	(P-12094/91; A-3096)
870.500	n	(P-12094/91; A-3096)
870.505	n	(P-12094/91; A-3096)
870.510	n	(P-12094/91; A-3096)
870.515	n	(P-12094/91; A-3096)
870.520	n	(P-12094/91; A-3096)
870.525	n	(P-12094/91; A-3096)
1130.10	n	(P-2010)
1130.20	n	(P-2010)
1130.30	n	(P-2010)
1130.40	n	(P-2010)
1130.50	n	(P-2010)
1130.60	n	(P-2010)
1130.70	n	(P-2010)
1150.20	am	(P-2492/91; A-3143)
1150.30	am	(P-2492/91; A-3143)
1150.40	am	(P-2492/91; A-3143) (P-17042)
1150.50	am	(P-2492/91; A-3143)
1150.60	am	(P-2492/91; A-3143)
1150.65	am	(P-2492/91; A-3143)
1150.70	am	(P-2492/91; A-3143)
1150.80	am	(P-2492/91; A-3143)
1150.90	am	(P-2492/91; A-3143)
1150.100	am	(P-2492/91; A-3143)
1150.110	am	(P-2492/91; A-3143)
1150.II.A	am	(P-2492/91; A-3143)
1175.565	am	(P-8033; A-13276)
1200.30	am	(P-14369/91; A-3169)
1210.10	am	(P-16374)
1210.20	am	(P-16374)
1210.25	n	(P-16374)

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1210.40	r	(P-16374)
1210.50	r	(P-16374)
1210.60	am	(P-16374)
1210.70	am	(P-16374)
1210.80	am	(P-16374)
1210.90	am	(P-16374)
1210.100	r	(P-16374)
1210.105	n	(P-16374)
1210.110	am	(P-16374)
1210.120	r	(P-16374)
1210.130	r	(P-16374)
1210.140	am	(P-16374)
1210.150	am	(P-16374)
1210.160	am	(P-16374)
1210.170	am	(P-16374)
1210.180	am	(P-16374)
1210.190	am	(P-16374)
1210.200	r	(P-16374)
1210.210	r	(P-16374)
1210.220	r	(P-16374)
1210.230	r	(P-16374)
1210.235	am	(P-16374)
1210.240	am	(P-16374)
1210.250	r	(P-16374)
1220.160	am	(P-15762)
1220.170	n	(P-15762)
1220.260	am	(P-15762)
1220.270	n	(P-15762)
1220.360	n	(P-15762)
1220.435	r	(P-15762)
1220.440	n	(P-15762)
1220.525	n	(P-15762)
1240.5	r	(P-15775)
1240.10	am	(P-15775)
1240.15	am	(P-15775)
1240.50	am	(P-15775)
1240.51	am	(P-15775)
1255.10	n	(P-17030/91; A-3194)
1255.20	n	(P-17030/91; A-3194)
1255.30	n	(P-17030/91; A-3194)
1255.40	n	(P-17030/91; A-3194)
1255.50	n	(P-17030/91; A-3194)
1255.60	n	(P-17030/91; A-3194)
1255.70	n	(P-17030/91; A-3194)
1255.80	n	(P-17030/91; A-3194)
1255.90	n	(P-17030/91; A-3194)
1270.20	am	(P-10863; A-15548)
1275.40	am	(P-5741; A-10458)
1275.50	am	(P-5741; A-10458)
1275.80	n	(P-5741; A-10458)
1300.48	am	(P-16484)
1310.20	am	(P-3784; A-12565)
1310.30	am	(P-3784; A-12565)
1310.40	am	(P-3784; A-12565)
1310.60	am	(P-3784; A-12565)
1310.70	am	(P-3784; A-12565)
1310.75	am	(P-3784; A-12565)
1310.80	am	(P-3784; A-12565)
1310.85	am	(P-3784; A-12565)
1310.90	am	(P-3784; A-12565)
1330.10	am	(P-5746)
1330.20	am	(P-5746)
1330.30	am	(P-5746)
1330.40	am	(P-5746)
1330.50	am	(P-5746)
1330.55	am	(P-5746)
1330.70	am	(P-5746)
1330.75	n	(P-5746)
1330.80	am	(P-5746)
1330.90	am	(P-5746)
1330.91	am	(P-5746)
1330.92	am	(P-5746)
1330.93	am	(P-5746)
1330.94	am	(P-5746)
1330.95	am	(P-5746)
1330.96	am	(P-5746)
1330.99	am	(P-5746)
1330.100	am	(P-5746)
1330.110	am	(P-5746)
1330.120	am	(P-5746)
1330.130	am	(P-5746)
1330.140	am	(P-5746)
1340.15	n	(P-11369/91; A-3175)
1340.20	am	(P-11369/91; A-3175)
1340.30	am	(P-11369/91; A-3175)
1340.40	am	(P-11369/91; A-3175)
1340.50	am	(P-11369/91; A-3175)
1340.55	am	(P-11369/91; A-3175)
1340.60	am	(P-11369/91; A-3175)
1340.65	am	(P-11369/91; A-3175)
1340.66	n	(P-11369/91; A-3175)
1340.70	am	(P-11369/91; A-3175)
1360.30	am	(P-8318; A-13281)
1360.45	am	(P-8318; A-13281)
1360.60	am	(P-8318; A-13281)
1360.70	am	(P-8318; A-13281)
1380.280	am	(P-9385; A-15553)
1380.300	am	(P-9385; A-15553)
1450.175	n	(P-14375/91; A-3204)
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1510.50	n	(P-12104; A-17077)
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110.40	n	(P-3689)
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110.60	n	(P-3689)
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2000.45	am	(P-1511; A-10068)
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2000.430	am	(P-1511; A-10068)
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2000.520	am	(P-1511; A-10068)
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750.130	am	(P-10408; A-17359)
750.Ap A	#,n	(P-10408; A-17359)
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250.2720	n	(P-2016)
300.110	am	(P-2034; A-17089)
300.120	am	(P-4367/91; A-681)
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		(P-17555)
300.1010	am	(P-2034; A-17089)
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300.3310	am	(P-2034; A-17089)
300.3710	am	(P-2034; A-17089)
300.Ap.B	r	(P-2034; A-17089)
330.110	am	(P-18407/91; A-14370)
330.120	am	(P-4338/91; A-651)
330.140	am	(P-18407/91; A-14370)
330.150	am	(P-18407/91; A-14370)
330.330	am	(P-4338/91; A-651)
		(P-18407/91; A-14370)
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350.330	am	(P-4280; A-594) (P-18357/91; RC-10501; A-13910)
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350.640	am	(P-18357/91; RC-10501) (P-17500)
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350.1870	am	(P-18357/91; RC-10501; A-13910)
350.2960	am	(P-18357/91; RC-10501; A-13910)
350.3000	am	(P-18357/91; RC-10501; A-13910)
350.3310	am	(P-18357/91; RC-10501; A-13910)
350.4210	am	(P-18357/91; RC-10501; A-13910)
390.120	am	(P-4309/91; A-623)
390.140	am	(P-18407/91; RC-10502; A-14329)
390.150	am	(P-18407/91; RC-10502; A-14329)
390.330	am	(P-4309/91; A-623) (P-18407/91; RC-10502; A-14329)
390.640	am	(P-18407/91; RC-10502) (P-17515)
390.1025	n	(P-16520)
390.1040	am	(P-18407/91; RC-10502; A-14329)
390.3000	am	(P-18407/91; RC-10502; A-14329)
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390.3510	am	(P-18407/91; A-14329)
395.100	am	(P-8066)
395.110	am	(P-8066)
395.120	am	(P-8066)
395.130	am	(P-8066)
395.140	am	(P-8066)
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395.300	am	(P-8066)
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535.20	am	(P-10911)
535.100	am	(P-10911)
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535.200	am	(P-10911)
535.210	am	(P-10911)
535.215	am	(P-10911)
535.216	n	(P-10911)
535.220	r	(P-10911)
535.230	am	(P-10911)
535.260	am	(P-10911)
535.265	am	(P-10911)
535.270	am	(P-10911)
535.310	am	(P-10911)
535.315	am	(P-10911)
535.320	am	(P-10911)
535.330	am	(P-10911)
535.340	am	(P-10911)
535.400	am	(P-10911)
535.410	am	(P-10911)
535.415	am	(P-10911)
535.420	am	(P-10911)
535.430	am	(P-10911)
535.435	am	(P-10911)
535.440	am	(P-10911)
535.500	n	(P-10911)
535.510	r	(P-10911)
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535.520	am	(P-10911)
535.530	am	(P-10911)
535.535	am	(P-10911)
535.540	am	(P-10911)
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540.70	am	(P-15023)
540.80	am	(P-15023)
540.90	am	(P-15023)
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595.100	am	(P-17477)
595.110	am	(P-17477)
595.200	am	(P-17477)

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597.100	n	(P-17529)
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597.200	n	(P-17529)
597.210	n	(P-17529)
597.220	n	(P-17529)
597.300	n	(P-17529)
597.310	n	(P-17529)
597.320	n	(P-17529)
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630.90	am	(P-8103)
630.200	am	(P-8103)
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635.90	am	(P-15816)
672.100	am	(P-9424; A-17734)
672.105	am	(P-9424; A-17734)
672.200	am	(P-9424; A-17734)
672.205	am	(P-9424; A-17734)
672.210	am	(P-9424; A-17734)
672.215	am	(P-9424; A-17734)
672.225	am	(P-9424; A-17734)
672.300	am	(P-9424; A-17734)
672.405	am	(P-9424; A-17734)
672.415	am	(P-9424; A-17734)
672.420	am	(P-9424; A-17734)
672.450	am	(P-9424; A-17734)
672.505	am	(P-9424; A-17734)
672.510	am	(P-9424; A-17734)
672.515	am	(P-9424; A-17734)
672.615	am	(P-9424; A-17734)
672.625	am	(P-9424; A-17734)
672.Ap.A	am	(P-9424; A-17734)
682.100	am	(P-13428)
682.130	am	(P-13428)
682.140	am	(P-13428)
682.150	am	(P-13428)
682.170	am	(P-13428)
682.195	n	(P-13428)
682.200	am	(P-13428)
682.210	am	(P-13428)
682.215	n	(P-13428)
682.230	am	(P-13428)
682.250	am	(P-13428)
682.260	am	(P-13428)
682.320	am	(P-13428)
682.410	am	(P-13428)
682.420	am	(P-13428)
682.450	am	(P-13428)
682.Ap.A	r	(P-13428)
682.Ap.B	r	(P-13428)
682.Ap.C	r	(P-13428)
682.Ap.D	r	(P-13428)
682.Ap.E	r	(P-13428)
682.Ap.F	r	(P-13428)
682.Ap.G	r	(P-13428)
682.Ap.H	r	(P-13428)
682.Ap.I	r	(P-13428)
682.Ap.J	r	(P-13428)
692.10	n	(P-14389/91; A-4052)
692.Ap.A	n	(P-14389/91; A-4052)
692.Ap.B	n	(P-14389/91; A-4052)
693.10	am	(P-16874/91; RC-4556; A-5921)
693.15	am	(P-16874/91; A-5921)
693.30	am	(P-16874/91; RC-4556; A-5921)
693.40	am	(P-16874/91; RC-4556; A-5921)
693.45	n	(P-16874/91; A-5921)
693.100	am	(P-16874/91; A-5921)
694.20	am	(P-13414)
694.100	am	(P-13414)
694.110	am	(P-13414)
694.120	am	(P-13414)
694.220	am	(P-6972/91; A-5916)
694.Ap.A	r	(P-13414)
694.Ap.B	r	(P-13414)
695.10	am	(P-13472)
695.30	am	(P-13472)
695.40	am	(P-13472)
695.50	n	(P-13472)
695.Ap.A	n	(P-13472)
750.5	am	(P-5836; A-15995)
750.10	am	(P-5836; A-15995)
750.100	am	(P-5836; A-15995)
750.110	am	(P-5836; A-15995)
750.1000	am	(P-5836; A-15995)
750.2000	n	(P-5836; A-15995)
750.2010	n	(P-5836; A-15995)
750.2020	n	(P-5836; A-15995)
750.2030	n	(P-5836; A-15995)
750.2031	n	(P-5836; A-15995)
750.2032	n	(P-5836; A-15995)
750.2040	n	(P-5836; A-15995)
750.2041	n	(P-5836; A-15995)

TITLE 77 (CONT'D)

750.2042	n	(P-5836; A-15995)
750.2050	n	(P-5836; A-15995)
750.2060	n	(P-5836; A-15995)
750.2070	n	(P-5836; A-15995)
750.2080	n	(P-5836; A-15995)
750.3000	n	(P-5836; A-15995)
750.3100	n	(P-5836; A-15995)
750.3200	n	(P-5836; A-15995)
760.15	am	(P-5861; A-16050)
760.20	am	(P-5861; A-16050)
760.100	am	(P-5861; A-16050)
760.110	am	(P-5861; A-16050)
760.900	am	(P-5861; A-16050)
760.2000	n	(P-5861; A-16050)
760.2010	n	(P-5861; A-16050)
760.2020	n	(P-5861; A-16050)
760.2030	n	(P-5861; A-16050)
760.2031	n	(P-5861; A-16050)
760.2032	n	(P-5861; A-16050)
760.2040	n	(P-5861; A-16050)
760.2041	n	(P-5861; A-16050)
760.2042	n	(P-5861; A-16050)
760.2050	n	(P-5861; A-16050)
760.2060	n	(P-5861; A-16050)
760.2070	n	(P-5861; A-16050)
760.2080	n	(P-5861; A-16050)
760.3000	n	(P-5861; A-16050)
760.3100	n	(P-5861; A-16050)
760.3200	n	(P-5861; A-16050)
770.10	r	(P-5885; A-16072)
770.20	r	(P-5885; A-16072)
770.30	r	(P-5885; A-16072)
790.40	am	(P-15943/91; A-5941; C-7512)
790.480	am	(P-4782; A-12913) (E-4899)
790.500	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.540	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.548	am	(P-4782; A-12913) (E-4899)
790.580	am	(P-4782; A-12913) (E-4899)
790.600	am	(P-15943/91; A-5941; C-7512) (P-4782;E-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.620	am	(P-4782; A-12913) (E-4899)
790.660	am	(P-4782; A-12913) (E-4899)
790.700	am	(P-4782; A-12913) (E-4899)
790.706	am	(P-4782; A-12913) (E-4899)
790.721	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.740	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (P-17496) (E-17781) (E-8571)
790.760	am	(P-4782; A-12913) (E-4899)
790.780	am	(P-4782; A-12913) (E-4899)
790.788	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.799	am	(P-15943/91; A-5941; C-7512) (P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.820	am	(P-4782; A-12913) (E-4899)
790.830	am	(P-4782; A-12913) (E-4899)
790.860	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.900	am	(P-4782; A-12913) (E-4899)
790.910	am	(P-4782; A-12913) (E-4890)
790.920	am	(P-15943/91; A-5941; C-7512)
790.974	am	(P-17496) (E-17781)
790.980	am	(P-4782; A-12913) (E-4899)

TITLE 77 (CONT'D)

790.1060	am	(P-4782; A-12913) (E-4899)
790.1112	am	(P-4782; A-12913) (E-4899)
790.1120	am	(P-4782; A-12913) (E-4899)
790.1140	am	(P-4782; A-12913) (E-4899)
790.1300	am	(P-4782; A-12913) (E-4899)
790.1345	am	(P-4782; A-12913) (E-4899)
790.1350	am	(P-15943/91; A-5941; C-7512) (P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.1388	n	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512) (P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.1388	am	(P-17496) (E-17781)
790.1390	am	(P-17496) (E-17781)
790.1418	am	(P-17496) (E-17781)
790.1420	am	(P-4782; A-12913) (E-4899)
790.1460	am	(P-4782; A-12913) (E-4899)
790.1490	am	(P-4782; A-12913) (E-4899)
790.1500	am	(P-4782; A-12913) (E-4899)
790.1540	am	(P-4782; A-12913) (E-4899)
790.1560	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.1565	n	(P-17496) (E-17781)
790.1570	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.1577	am	(P-17496) (E-17781)
790.1660	am	(P-4782; A-12913) (E-4899)
790.1685	am	(P-4782; A-12913) (E-4899)
790.1700	am	(P-4782; A-12913) (E-4899)
790.1710	am	(P-4782; A-12913) (E-4899)
790.1740	am	(P-4782; A-12913) (E-4899)
790.1820	am	(P-4782; A-12913) (E-4899)
790.1830	n	(P-4782; A-12913) (E-4899)
790.1835	n	(P-8329; A-16019) (E-8571)
790.1859	n	(P-17496) (E-17781)
790.1860	am	(P-4782; A-12913) (E-4899)
790.1930	am	(P-17496) (E-17781)
790.1950	am	(P-15943/91; A-5941; C-7512) (P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.1960	am	(P-17496) (E-17781)
790.1980	am	(P-4782; A-12913) (E-4899)
790.2020	am	(P-4782; A-12913) (E-4899)
790.2060	am	(P-8329; A-16019) (E-8571)
790.2086	n	(P-17496) (E-17781)
790.2097	am	(P-4782; A-12913) (E-4899)
790.2100	am	(P-4782; A-12913) (E-4899)
790.2140	am	(P-4782; A-12913) (E-4899)
790.2155	am	(P-4782; A-12913) (E-4899)
790.2180	am	(P-4782; A-12913) (E-4899)
790.2260	am	(P-4782; A-12913) (E-4899)
790.2380	am	(P-4782; A-12913) (E-4899)
790.2390	am	(P-4782; A-12913) (E-4899)
790.2462	am	(P-17496) (E-17781)
790.2465	am	(P-17496) (E-17781)
790.2470	am	(P-4782; A-12913) (E-4899)
790.2485	am	(P-15943/91; A-5941; C-7512)

TITLE 77 (CONT'D)

790.2500	am	(P-4782; A-12913) (E-4899)
790.2510	am	(P-4782; A-12913) (E-4899)
790.2540	am	(P-4782; A-12913) (E-4899)
790.2580	am	(P-15943/91; A-5941; C-7512) (P-4782; A-12913) (E-4899)
790.2587	n	(P-17496) (E-17781)
790.2600	n	(P-17496) (E-17781)
790.2603	am	(P-15943/91; A-5941; C-7512)
790.2605	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.2613	am	(P-15943/91; A-5941; C-7512) (P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.2617	am	(P-4782; A-12913) (E-4899)
790.2618	am	(P-4782; A-12913) (E-4899) (P-17496) (E_17781)
790.2620	am	(P-4782; A-12913) (E-4899)
790.2661	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.2662	am	(P-17496) (E-17781)
790.2780	am	(P-4782; A-12913) (E-4899)
790.2805	am	(P-15943/91; A-5941; C-7512) (P-8329; A-16019) (E-8571)
790.2900	am	(P-4782; A-12913) (E-4899)
790.2902	am	(P-4782; A-12913) (E-4899)
790.2904	am	(P-4782; A-12913) (E-4899)
790.2928	am	(P-17496) (E-17781)
790.2932	am	(P-17496) (E-17781)
790.2980	am	(P-4782; A-12913) (E-4899)
790.3020	am	(P-4782; A-12913) (E-4899)
790.3021	am	(P-4782; A-12913) (E-4899)
790.3027	am	(P-15943/91; A-5941) (P-17496) (E-17781)
790.3029	am	(P-4782; A-12913) (E-4899)
790.3049	am	(P-4782; A-12913) (E-4899)
790.3054	am	(P-4782; A-12913) (E-4899)
790.3085	am	(P-4782; A-12913) (E-4899)
790.3100	am	(P-4782; A-12913) (E-4899)
790.3235	n	(P-17496) (E-17781)
790.3260	am	(P-4782; A-12913) (E-4899)
790.3300	am	(P-4782; A-12913) (E-4899)
790.3308	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.3315	am	(P-4782; A-12913) (E-4899)
790.3335	am	(P-4782; A-12913) (E-4899)
790.3337	n	(P-17496) (E-17781)
790.3340	am	(P-4782; A-12913) (E-4899)
790.3420	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.3437	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.3472	am	(P-4782; A-12913) (E-4899)
790.3480	n	(P-4782; A-12913) (E-4899)
790.3492	am	(P-4782; A-12913) (E-4899)
790.3495	n	(P-4782; A-12913) (E-4899)
790.3540	am	(P-4782; A-12913) (E-4899)

TITLE 77 (CONT'D)

790.3620	am	(P-4782; A-12913) (E-4899
790.3700	am	(P-4782; A-12913) (E-4899)
790.3720	am	(P-17496) (E-17781)
790.3742	am	(P-4782; A-12913) (E-4899)
790.3780	am	(P-4782; A-12913) (E-4899)
790.3860	am	(P-4782; A-12913) (E-4899)
790.3875	n	(P-4782; A-12913) (E-4899)
790.3902	n	(P-17496) (E-17781)
790.3907	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.3910	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512)
790.3914	am	(P-17496) (E-17781)
790.3940	am	(P-4782; A-12913) (E-4899)
790.3945	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.3980	am	(P-4782; A-12913) (E-4899)
790.3996	am	(P-4782; A-12913) (E-4899)
790.4012	am	(P-4782; A-12913) (E-4899)
790.4040	am	(P-4782) (E-4899) (P-15943/91; A-5941; C-7512)
790.4060	am	(P-4782; A-12913) (E-4899)
790.4100	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.4140	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.4173	am	(P-4782; A-12913) (E-4899)
790.4180	am	(P-4782; A-12913) (E-4899)
790.4220	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.4260	am	(P-4782; A-12913) (E-4899)
790.4300	am	(P-4782; A-12913) (E-4899)
790.4380	am	(P-17496) (E-17881)
790.4382	#	(P-17496) (E-17881)
790.4384	#,n	(P-17496) (E-17881)
790.4385	am	(P-4782; A-12913) (E-4899)
790.4386	am	(P-4782; A-12913) (E-4899)
790.4396	am	(P-4782; A-12913) (E-4899)
790.4398	am	(P-4782; A-12913) (E-4899)
790.4420	am	(P-4782; A-12913) (E-4899)
790.4580	am	(P-4782; A-12913) (E-4899)
790.4620	am	(P-4782; A-12913) (E-4899)
790.4660	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.4670	am	(P-4782; A-12913) (E-4899)
790.4680	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.4700	am	(P-4782; A-12913) (E-4899)
790.4720	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17881)
790.4728	am	(P-17496) (E-17881)
790.4740	am	(P-4782; A-12913) (E-4899)
790.4780	am	(P-4782; A-12913) (E-4899)
790.4840	am	(P-4782; A-12913) (E-4899)
790.4860	am	(P-4782; A-12913) (E-4899)

TITLE 77 (CONT'D)

790.4900	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.4965	am	(P-4782; A-12913) (E-4899)
790.4980	am	(P-4782; A-12913) (E-4899)
790.5060	am	(P-4782; A-12913) (E-4899)
790.5100	am	(P-4782; A-12913) (E-4899)
790.5140	am	(P-4782; A-12913) (E-4899)
790.5180	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512)
790.5220	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.5300	am	(P-4782; A-12913) (E-4899)
790.5312	am	(P-4782; A-12913) (E-4899) (P-15843/91; A-5941; C-7512)
790.5320	am	(P-15943/91; A-5941; C-7512) (P-17496) (E-17781)
790.5380	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512)
790.5420	am	(P-4782; A-12913) (E-4899)
790.5483	am	(P-4782; A-12913) (E-4899)
790.5500	am	(P-4782; A-12913) (E-4899) (P1-7496) (E-17781)
790.5520	am	(P-4782; A-12913) (E-4899)
790.5540	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.5544	am	(P-4782; A-12913) (E-4899)
790.5620	am	(P-4782; A-12913) (E-4899)
790.5640	am	(P-15943/91; A-5941)
790.5700	am	(P-4782; A-12913) (E-4899)
790.5740	am	(P-4782; A-12913) (E-4899)
790.5788	n	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.5792	am	(P-4782; A-12913) (E-4899)
790.5802	am	(P-4782; A-12913) (E-4899)
790.5807	am	(P-4782; A-12913) (E-4899)
790.5820	am	(P-4782; A-12913) (E-4899)
790.5830	am	(P-4782; A-12913) (E-4899)
790.5872	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.5900	am	(P-4782; A-12913) (E-4899)
790.5940	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.5980	am	(P-4782; A-12913) (E-4899)
790.6020	r	(P-4782; A-12913) (E-4899)
790.6140	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.6180	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.6260	am	(P-4782; A-12913) (E-4899)
790.6275	am	(P-4782; A-12913) (E-4899)
790.6277	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)

TITLE 77 (CONT'D)

790.6280	r	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.6300	am	(P-4782; A-12913) (E-4899)
790.6340	am	(P-4782; A-12913) (E-4899)
790.6370	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512) (P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.6375	am	(P-4782; A-12913) (E-4899)
790.6420	am	(P-4782; A-12913) (E-4899)
790.6430	am	(P-8329; A-16019) (E-8571) 9P-17496) (E-17781)
790.6452	am	(P-4782; A-12913) (E-4899)
790.6456	am	(P-4782; A-12913) (E-4899)
790.6460	am	(P-4782; A-12913) (E-4899)
790.6480	am	(P-4782; A-12913) (E-4899)
790.6500	am	(P-4782; A-12913) (E-4899)
790.6505	am	(P-17496) (E-17781)
790.6540	am	(P-4782; A-12913) (E-4899)
790.6570	r	(P-4782; A-12913) (E-4899)
790.6580	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.6610	am	(P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.6670	am	(P-4782; A-12913) (E-4899)
790.6740	am	(P-17496) (E-17781)
790.6780	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.6800	am	(P-4782; A-12913) (E-4899)
790.6820	am	(P-4782; A-12913) (E-4889)
790.6860	am	(P-4782; A-12913) (E-4899)
790.6875	am	(P-4782; A-12913) (E-4899)
790.6885	am	(P-4782; A-12913) (E-4899)
790.6895	am	(P-4782; A-12913) (E-4899)
790.6940	am	(P-4782; A-12913) (E-4899)
790.6960	am	(P-4782; A-12913) (E-4899)
790.6980	am	(P-4782; A-12913) (E-4899)
790.7100	am	(P-4782; A-12913) (E-4899)
790.7120	am	(P-4782; A-12913) (E-4899)
790.7130	am	(P-4782; A-12913) (E-4899)
790.7140	am	(P-4782; A-12913) (E-4899)
790.7180	am	(P-4782; A-12913) (E-4899)
790.7221	am	(P-17496) (E-17781)
790.7229	am	(P-4782; A-12913) (E-4899)
790.7245	am	(P-17496) (E-17781)
790.7260	am	(P-4782; A-12913) (E-4899)
790.7263	n	(P-4782; A-12913) (E-4899) (P-17496) (E-17881)
790.7265	am	(P-4782; A-12913) (E-4889) (P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.7278	am	(P-17496) (E-17781)
790.7280	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.7291	am	(P-4782; A-12913) (E-4899)
790.7296	am	(P-4782; A-12913) (E-4899)
790.7380	am	(P-4782; A-12913) (E-4899)

TITLE 77 (CONT'D)

790.7400	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.7420	am	(P-4782; A-12913) (E-4899)
790.7500	am	(P-4782; A-12913) (E-4899)
790.7510	am	(P-4782; A-12913) (E-4899)
790.7520	n	(P-17496) (E-17781)
790.7540	am	(P-4782; A-12913) (E-4899)
790.7580	am	(P-4782; A-12913) (E-4899)
790.7700	am	(P-4782; A-12913) (E-4899) (P-8329; A-16019) (E-8571)
790.7740	am	(P-4782; A-12913) (E-4899)
790.7820	am	(P-4782; A-12913) (E-4899)
790.7828	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512)
790.7834	am	(P-4782; A-12913) (E-4889)
790.7860	am	(P-4782; A-12913) (E-4899)
790.7875	n	(P-17496) (E-17781)
790.7940	am	(P-4782; A-12913) (E-4899)
790.7980	am	(P-4782; A-12913) (E-4899)
790.8015	am	(P-4782; A-12913) (E-4899)
790.8020	am	(P-4782; A-12913) (E-4899)
790.8030	am	(P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.8106	am	(P-4782; A-12913) (E-4899)
790.8136	am	(P-4782; A-12913) (E-4899)
790.8248	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.8300	am	(P-4782; A-12913) (E-4899)
790.8420	am	(P-4782; A-12913) (E-4899)
790.8540	am	(P-4782; A-12913) (E-4899)
790.8550	am	(P-17496) (E-17781)
790.8580	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512)
790.8620	am	(P-4782; A-12913) (E-4899)
790.8700	am	(P-4782; A-12913) (E-4899)
790.8710	am	(P-4782; A-12913) (E-4889) (P-17496) (E-17781)
790.8724	am	(P-4782; A-12913) (E-4899)
790.8740	am	(P-4782; A-12913) (E-4899)
790.8780	am	(P-4782; A-12913) (E-4899)
790.8820	am	(P-4782; A-12913) (E-4899)
790.8835	n	(P-17496) (E-17781)
790.8900	am	(P-4782; A-12913) (E-4899)
790.8940	am	(P-4782; A-12913) (E-4899)
790.8980	am	(P-4782; A-12913) (E-4899)
790.9020	am	(P-4782; A-12913) (E-4899)
790.9035	am	(P-4782; A-12913) (E-4899)
790.9045	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17881)
790.9048	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512)
790.9050	am	(P-15943/91; A-5941; C-7512) (P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.9056	am	(P-4782; A-12913) (E-4899)

TITLE 77 (CONT'D)

790.9060	am	(P-4782; A-12913) (E-4899)
790.9070	n	(P-8329; A-16019) (E-8571) (P-17496) (E-17781)
790.9084	am	(P-4782; A-12913) (E-4899)
790.9100	am	(P-4782; A-12913) (E-4899) (P-15943/91; A-5941; C-7512)
790.9140	am	(P-4782; A-12913) (E-4899)
790.9180	am	(P-4782; A-12913) (E-4899)
790.9220	am	(P-4782; A-12913) (E-4899)
790.9260	am	(P-4782; A-12913) (E-4899)
790.9300	am	(P-4782; A-12913) (E-4899)
790.9340	am	(P-4782; A-12913) (E-4899)
790.9380	am	(P-4782; A-12913) (E-4899)
790.9420	am	(P-4782; A-12913) (E-4899)
790.9460	am	(P-4782; A-12913) (E-4899)
790.9500	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.9520	am	(P-4782; A-12913) (E-4899) (P-17496) (E-17781)
790.9530	am	(P-4782; A-12913) (E-4899)
790.9580	am	(P-4782; A-12913) (E-4899)
795.10	n	(P-8136)
795.20	n	(P-8136)
795.30	n	(P-8136)
795.40	n	(P-8136)
795.50	n	(P-8136)
795.60	n	(P-8136)
795.70	n	(P-8136)
795.80	n	(P-8136)
795.90	n	(P-8136)
795.100	n	(P-8136)
795.110	n	(P-8136)
795.120	n	(P-8136)
795.130	n	(P-8136)
795.140	n	(P-8136)
795.150	n	(P-8136)
795.160	n	(P-8136)
795.170	n	(P-8136)
795.180	n	(P-8136)
795.190	n	(P-8136)
795.200	n	(P-8136)
795.210	n	(P-8136)
795.220	n	(P-8136)
830.10	am	(P-2092; A-11612)
830.880	am	(P-2092; A-11612)
830.885	am	(P-2092; A-11612)
830.890	am	(P-2092; A-11612)
830.900	am	(P-2092; A-11612)
840.20	am	(P-4329)
840.115	am	(P-4329)
840.210	am	(P-4329)
840.215	am	(P-4329)
840.305	am	(P-4329)
840.310	am	(P-4329)
840.Ap.B	am	(P-4329)
.Ex.A	am	(P-4329)
.Il.A	r	(P-4329)
.Ex.B	n	(P-4329)
.Il.B	r	(P-4329)
840.Ap.C	am	(P-4329)
.Ex.B	am	(P-4329)
845.10	am	(P-12314)
845.15	n	(P-12314)
845.20	am	(P-12314)
845.23	n	(P-12314)
845.25	n	(P-12314)
845.26	n	(P-12314)
845.28	n	(P-12314)
845.29	n	(P-12314)
845.30	am	(P-12314)
845.40	am	(P-12314)
845.50	am	(P-12314)
845.60	am	(P-12314)
845.Ap.A	n	(P-12314)
Ex.A	n	(P-12314)
Ex.B	n	(P-12314)
Ex.C	n	(P-12314)
845.Ap.B	n	(P-12314)
845.Ap.C	n	(P-12314)
845.Ap.D	n	(P-12314)
Il.A	n	(P-12314)
Il.B	n	(P-12314)
845.Ap.E	n	(P-12314)

TITLE 77 (CONT'D)

890.110	r	(P-18236)
890.110	n	(P-18479)
890.120	r	(P-18236)
890.120	n	(P-18479)
890.130	r	(P-18236)
890.130	n	(P-18479)
890.140	n	(P-18479)
890.150	n	(P-18479)
890.160	n	(P-18479)
890.170	n	(P-18479)
890.180	n	(P-18479)
890.190	n	(P-18479)
890.200	n	(P-18479)
890.210	r	(P-18236)
890.210	n	(P-18479)
890.220	r	(P-18236)
890.230	n	(P-18479)
890.230	r	(P-18236)
890.240	r	(P-18236)
890.250	r	(P-18236)
890.260	r	(P-18236)
890.270	r	(P-18236)
890.280	r	(P-18236)
890.290	r	(P-18236)
890.300	r	(P-18236)
890.310	r	(P-18236)
890.310	n	(P-18479)
890.320	r	(P-18236)
890.320	n	(P-18479)
890.330	r	(P-18236)
890.330	n	(P-18479)
890.340	r	(P-18236)
890.340	n	(P-18479)
890.350	r	(P-18236)
890.350	n	(P-18479)
890.360	r	(P-18236)
890.360	n	(P-18479)
890.370	r	(P-18236)
890.370	n	(P-18479)
890.380	r	(P-18236)
890.380	n	(P-18479)
890.390	r	(P-18236)
890.400	r	(P-18236)
890.410	r	(P-18236)
890.410	n	(P-18479)
890.420	r	(P-18236)
890.420	n	(P-18479)
890.430	r	(P-18236)
890.430	n	(P-18479)
890.440	r	(P-18236)
890.440	n	(P-18479)
890.450	r	(P-18236)
890.460	r	(P-18236)
890.510	r	(P-18236)
890.510	n	(P-18479)
890.520	r	(P-18236)
890.520	n	(P-18479)
890.530	r	(P-18236)
890.530	n	(P-18479)
890.540	r	(P-18236)
890.540	n	(P-18479)
890.550	r	(P-18236)
890.550	n	(P-18479)
890.560	r	(P-18236)
890.610	r	(P-18236)
890.610	n	(P-18479)
890.620	r	(P-18236)
890.620	n	(P-18479)
890.630	r	(P-18236)
890.630	n	(P-18479)
890.640	r	(P-18236)
890.640	n	(P-18479)
890.650	r	(P-18236)
890.650	n	(P-18479)
890.660	r	(P-18236)
890.660	n	(P-18479)
890.670	r	(P-18236)
890.670	n	(P-18479)
890.680	r	(P-18236)
890.680	n	(P-18479)
890.690	r	(P-18236)
890.690	n	(P-18479)
890.700	n	(P-18479)
890.710	r	(P-18236)
890.710	n	(P-18479)
890.720	r	(P-18236)
890.720	n	(P-18479)
890.730	r	(P-18236)
890.730	n	(P-18479)
890.740	r	(P-18236)
890.740	n	(P-18479)
890.750	r	(P-18236)
890.750	n	(P-18479)
890.760	r	(P-18236)
890.760	n	(P-18479)
890.770	r	(P-18236)
890.770	n	(P-18479)
890.780	r	(P-18236)
890.780	n	(P-18479)
890.790	n	(P-18479)

TITLE 77 (CONT'D)

890.800	n	(P-18479)
890.810	r	(P-18236)
890.810	n	(P-18479)
890.820	r	(P-18236)
890.830	r	(P-18236)
890.840	r	(P-18236)
890.850	r	(P-18236)
890.860	r	(P-18236)
890.870	r	(P-18236)
890.880	r	(P-18236)
890.890	r	(P-18236)
890.900	r	(P-18236)
890.910	r	(P-18236)
890.910	n	(P-18479)
890.920	r	(P-18236)
890.920	n	(P-18479)
890.930	r	(P-18236)
890.930	n	(P-18479)
890.1010	r	(P-18236)
890.1010	n	(P-18479)
890.1020	r	(P-18236)
890.1020	n	(P-18479)
890.1030	r	(P-18236)
890.1030	n	(P-18479)
890.1040	r	(P-18236)
890.1040	n	(P-18479)
890.1050	r	(P-18236)
890.1050	n	(P-18479)
890.1060	r	(P-18236)
890.1060	n	(P-18479)
890.1070	r	(P-18236)
890.1080	r	(P-18236)
890.1090	r	(P-18236)
890.1100	r	(P-18236)
890.1110	r	(P-18236)
890.1110	n	(P-18479)
890.1120	r	(P-18236)
890.1120	n	(P-18479)
890.1130	r	(P-18236)
890.1130	n	(P-18479)
890.1140	r	(P-18236)
890.1140	n	(P-18479)
890.1150	r	(P-18236)
890.1150	n	(P-18479)
890.1160	r	(P-18236)
890.1160	n	(P-18479)
890.1170	r	(P-18236)
890.1170	n	(P-18479)
890.1180	r	(P-18236)
890.1180	n	(P-18479)
890.1190	r	(P-18236)
890.1190	n	(P-18479)
890.1200	r	(P-18236)
890.1200	n	(P-18479)
890.1210	r	(P-18236)
890.1210	n	(P-18479)
890.1220	n	(P-18479)
890.1230	n	(P-18479)
890.1240	n	(P-18479)
890.1310	r	(P-18236)
890.1310	n	(P-18479)
890.1320	r	(P-18236)
890.1320	n	(P-18479)
890.1330	r	(P-18236)
890.1330	n	(P-18479)
890.1340	r	(P-18236)
890.1340	n	(P-18479)
890.1350	r	(P-18236)
890.1350	n	(P-18479)
890.1360	r	(P-18236)
890.1360	n	(P-18479)
890.1370	n	(P-18479)
890.1380	n	(P-18479)
890.1410	r	(P-18236)
890.1410	n	(P-18479)
890.1420	r	(P-18236)
890.1420	n	(P-18479)
890.1430	r	(P-18236)
890.1430	n	(P-18479)
890.1440	r	(P-18236)
890.1440	n	(P-18479)
890.1450	r	(P-18236)
890.1450	n	(P-18479)
890.1460	r	(P-18236)
890.1460	n	(P-18479)
890.1470	r	(P-18236)
890.1470	n	(P-18479)
890.1480	n	(P-18479)
890.1490	n	(P-18479)
890.1500	n	(P-18479)
890.1510	r	(P-18236)
890.1510	n	(P-18479)
890.1520	r	(P-18236)
890.1520	n	(P-18479)
890.1530	r	(P-18236)
890.1530	n	(P-18479)
890.1540	r	(P-18236)
890.1540	n	(P-18479)
890.1550	r	(P-18236)
890.1550	n	(P-18479)

TITLE 77 (CONT'D)

890.1560	r	(P-18236)
890.1560	n	(P-18479)
890.1570	r	(P-18236)
890.1570	n	(P-18479)
890.1580	r	(P-18236)
890.1580	n	(P-18479)
890.1590	r	(P-18236)
890.1590	n	(P-18479)
890.1600	r	(P-18236)
890.1600	n	(P-18479)
890.1610	r	(P-18236)
890.1620	r	(P-18236)
890.1630	r	(P-18236)
890.1640	r	(P-18236)
890.1650	r	(P-18236)
890.1660	r	(P-18236)
890.1670	r	(P-18236)
890.1710	r	(P-18236)
890.1710	n	(P-18479)
890.1720	r	(P-18236)
890.1720	n	(P-18479)
890.1730	r	(P-18236)
890.1730	n	(P-18479)
890.1740	r	(P-18236)
890.1740	n	(P-18479)
890.1750	r	(P-18236)
890.1750	n	(P-18479)
890.1760	r	(P-18236)
890.1760	n	(P-18479)
890.1770	r	(P-18236)
890.1770	n	(P-18479)
890.1780	r	(P-18236)
890.1780	n	(P-18479)
890.1790	r	(P-18236)
890.1790	n	(P-18479)
890.1800	r	(P-18236)
890.1800	n	(P-18479)
890.1910	r	(P-18236)
890.1910	n	(P-18479)
890.1920	r	(P-18236)
890.1920	n	(P-18479)
890.1930	r	(P-18236)
890.1930	n	(P-18479)
890.1940	r	(P-18236)
890.1940	n	(P-18479)
890.1950	r	(P-18236)
890.1950	n	(P-18479)
890.1960	r	(P-18236)
890.1970	r	(P-18236)
890.1980	r	(P-18236)
890.1990	r	(P-18236)
890.2000	r	(P-18236)
890.2010	r	(P-18236)
890.2020	r	(P-18236)
890.2030	r	(P-18236)
890.2040	r	(P-18236)
890.2050	r	(P-18236)
890.2060	r	(P-18236)
890.2070	r	(P-18236)
890.2080	r	(P-18236)
890.2090	r	(P-18236)
890.2100	r	(P-18236)
890.2120	r	(P-18236)
890.2210	r	(P-18236)
890.2220	r	(P-18236)
890.2230	r	(P-18236)
890.2240	r	(P-18236)
890.2250	r	(P-18236)
890.2260	r	(P-18236)
890.2270	r	(P-18236)
890.2280	r	(P-18236)
890.2290	r	(P-18236)
890.3010	r	(P-18236)
890.3020	r	(P-18236)
890.3030	r	(P-18236)
890.3040	r	(P-18236)
890.3050	r	(P-18236)
890.3060	r	(P-18236)
890.3070	r	(P-18236)
890.3080	r	(P-18236)
890.3090	r	(P-18236)
890.4000	r	(P-18236)
890.Ap.A	r	(P-18236)
890.Ap.A	r	(P-18236)
.IL.A	r	(P-18236)
.Tb.A1	n	(P-18479)
.Tb.A2	n	(P-18479)
.Tb.A3	n	(P-18479)
.Tb.A4	n	(P-18479)
.Tb.A5	n	(P-18479)
.Tb.A6	n	(P-18479)
.Tb.A7	n	(P-18479)
.Tb.A	n	(P-18479)
.Tb.B	n	(P-18479)
.Tb.C	n	(P-18479)
.Tb.D	n	(P-18479)
.Tb.E	n	(P-18479)
.Tb.F	n	(P-18479)
.Tb.G	n	(P-18479)
.Tb.H	n	(P-18479)
.Tb.I	n	(P-18479)

TITLE 77 (CONT'D)

.Tb.J	n	(P-18479)
.Tb.K	n	(P-18479)
.Tb.L	n	(P-18479)
.Tb.M	n	(P-18479)
.Tb.N	n	(P-18479)
.Tb.O	n	(P-18479)
.Tb.P	n	(P-18479)
.Tb.Q	n	(P-18479)
890.Ap.B	r	(P-18236)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
.IL.G	n	(P-18479)
.IL.H	n	(P-18479)
.IL.I	n	(P-18479)
.IL.J	n	(P-18479)
.IL.K	n	(P-18479)
.IL.L	n	(P-18479)
.IL.M	n	(P-18479)
.IL.N	n	(P-18479)
.IL.O	n	(P-18479)
.IL.P	n	(P-18479)
.IL.Q	n	(P-18479)
.IL.R	n	(P-18479)
.IL.S	n	(P-18479)
.IL.T	n	(P-18479)
.IL.U	n	(P-18479)
.IL.V	n	(P-18479)
.IL.W	n	(P-18479)
.IL.X	n	(P-18479)
.IL.Y	n	(P-18479)
.IL.Z	n	(P-18479)
.IL.AA	n	(P-18479)
890.Ap.C	r	(P-18236)
890.Ap.C	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
890.Ap.D	r	(P-18236)
890.Ap.D	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
890.Ap.E	r	(P-18236)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
890.Ap.F	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
890.Ap.G	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
890.Ap.H	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
890.Ap.I	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
.IL.G	n	(P-18479)
.IL.H	n	(P-18479)
.IL.I	n	(P-18479)
.IL.J	n	(P-18479)
.IL.K	n	(P-18479)
.IL.L	n	(P-18479)
.IL.M	n	(P-18479)
.IL.N	n	(P-18479)
.IL.O	n	(P-18479)

TITLE 77 (CONT'D)

890.Ap.J	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
.IL.G	n	(P-18479)
.IL.H	n	(P-18479)
.IL.I	n	(P-18479)
.IL.J	n	(P-18479)
.IL.K	n	(P-18479)
.IL.L	n	(P-18479)
890.Ap.K	n	(P-18479)
.IL.A	n	(P-18479)
.IL.B	n	(P-18479)
.IL.C	n	(P-18479)
.IL.D	n	(P-18479)
.IL.E	n	(P-18479)
.IL.F	n	(P-18479)
.IL.G	n	(P-18479)
.IL.H	n	(P-18479)
.IL.I	n	(P-18479)
.IL.J	n	(P-18479)
.IL.K	n	(P-18479)
.IL.L	n	(P-18479)
.IL.M	n	(P-18479)
.IL.N	n	(P-18479)
.IL.O	n	(P-18479)
.IL.P	n	(P-18479)
.IL.Q	n	(P-18479)
.IL.R	n	(P-18479)
.IL.S	n	(P-18479)
.IL.T	n	(P-18479)
.IL.U	n	(P-18479)
.IL.V	n	(P-18479)
.IL.W	n	(P-18479)
.IL.X	n	(P-18479)
.IL.Y	n	(P-18479)
.IL.Z	n	(P-18479)
.IL.AA	n	(P-18479)
.IL.BB	n	(P-18479)
.IL.CC	n	(P-18479)
.IL.DD	n	(P-18479)
.IL.EE	n	(P-18479)
.IL.FF	n	(P-18479)
.IL.GG	n	(P-18479)
890.Ex.A	r	(P-18236)
.IL.A	r	(P-18236)
.IL.B	r	(P-18236)
.IL.C	r	(P-18236)
.IL.D	r	(P-18236)
.IL.E	r	(P-18236)
.IL.F	r	(P-18236)
.IL.G	r	(P-18236)
.IL.H	r	(P-18236)
.IL.I	r	(P-18236)
.IL.J	r	(P-18236)
.IL.K	r	(P-18236)
.IL.L	r	(P-18236)
.IL.M	r	(P-18236)
.IL.N	r	(P-18236)
.IL.O	r	(P-18236)
.IL.P	r	(P-18236)
.IL.Q	r	(P-18236)
.IL.R	r	(P-18236)
.IL.S	r	(P-18236)
.IL.T	r	(P-18236)
.IL.U	r	(P-18236)
.IL.V	r	(P-18236)
.IL.W	r	(P-18236)
.IL.X	r	(P-18236)
890.Ex.B	r	(P-18236)
.IL.A	r	(P-18236)
.IL.B	r	(P-18236)
.IL.C	r	(P-18236)
.IL.D	r	(P-18236)
.IL.E	r	(P-18236)
.IL.F	r	(P-18236)
.IL.G	r	(P-18236)
.IL.H	r	(P-18236)
.IL.I	r	(P-18236)
.IL.J	r	(P-18236)
890.Ex.C	r	(P-18236)
.IL.A	r	(P-18236)
.IL.B	r	(P-18236)
.IL.C	r	(P-18236)
.IL.D	r	(P-18236)
.IL.E	r	(P-18236)
.IL.F	r	(P-18236)
.IL.G	r	(P-18236)
.IL.H	r	(P-18236)
.IL.I	r	(P-18236)
.IL.J	r	(P-18236)
.IL.K	r	(P-18236)
.IL.L	r	(P-18236)
.IL.M	r	(P-18236)
.IL.N	r	(P-18236)
890.Ex.D	r	(P-18236)
.IL.A	r	(P-18236)

TITLE 77 (CONT'D)

.IL.B	r	(P-18236)
.IL.C	r	(P-18236)
.IL.D	r	(P-18236)
.IL.E	r	(P-18236)
.IL.F	r	(P-18236)
.IL.G	r	(P-18236)
.IL.H	r	(P-18236)
.IL.I	r	(P-18236)
.IL.J	r	(P-18236)
.IL.K	r	(P-18236)
.IL.L	r	(P-18236)
.IL.M	r	(P-18236)
.IL.N	r	(P-18236)
.IL.O	r	(P-18236)
.IL.P	r	(P-18236)
890.Ex.E	r	(P-18236)
.IL.A	r	(P-18236)
.IL.B	r	(P-18236)
.IL.C	r	(P-18236)
.IL.D	r	(P-18236)
.IL.E	r	(P-18236)
.IL.F	r	(P-18236)
.IL.G	r	(P-18236)
.IL.H	r	(P-18236)
.IL.I	r	(P-18236)
.IL.J	r	(P-18236)
.IL.K	r	(P-18236)
.IL.L	r	(P-18236)
.IL.M	r	(P-18236)
.IL.N	r	(P-18236)
.IL.O	r	(P-18236)
.IL.P	r	(P-18236)
.IL.Q	r	(P-18236)
.IL.R	r	(P-18236)
.IL.S	r	(P-18236)
.IL.T	r	(P-18236)
890.Ex.F	r	(P-18236)
.IL.A	r	(P-18236)
.IL.B	r	(P-18236)
.IL.C	r	(P-18236)
.IL.D	r	(P-18236)
.IL.E	r	(P-18236)
.IL.F	r	(P-18236)
.IL.G	r	(P-18236)
.IL.H	r	(P-18236)
.IL.I	r	(P-18236)
.IL.J	r	(P-18236)
.IL.K	r	(P-18236)
.IL.L	r	(P-18236)
.IL.M	r	(P-18236)
.IL.N	r	(P-18236)
.IL.O	r	(P-18236)
.IL.P	r	(P-18236)
.IL.Q	r	(P-18236)
.IL.R	r	(P-18236)
.IL.S	r	(P-18236)
.IL.T	r	(P-18236)
.IL.U	r	(P-18236)
.IL.V	r	(P-18236)
.IL.W	r	(P-18236)
.IL.X	r	(P-18236)
.IL.Y	r	(P-18236)
.IL.Z	r	(P-18236)
.IL.AA	r	(P-18236)
.IL.BB	r	(P-18236)
.IL.CC	r	(P-18236)
.IL.DD	r	(P-18236)
890.Ex. G	r	(P-18236)
.Tb.A	r	(P-18236)
.Tb.B	r	(P-18236)
.Tb.C	r	(P-18236)
.Tb.D	r	(P-18236)
.Tb.E	r	(P-18236)
.Tb.F	r	(P-18236)
.Tb.G	r	(P-18236)
.Tb.H	r	(P-18236)
.Tb.I	r	(P-18236)
.Tb.J	r	(P-18236)
.Tb.K	r	(P-18236)
.Tb.L	r	(P-18236)
.Tb.M	r	(P-18236)
.Tb.N	r	(P-18236)
.Tb.O	r	(P-18236)
.Tb.P	r	(P-18236)
.Tb.Q	r	(P-18236)
900.10	am	(P-10870)
900.30	am	(P-10870)
900.40	am	(P-10870)
900.50	am	(P-10870)
900.60	am	(P-10870)
900.65	am	(P-10870)
900.70	am	(P-10870)
900.Tb.E	n	(P-10870)
900.Tb.F	n	(P-10870)
900.Tb.G	n	(P-10870)
900.Tb.H	n	(P-10870)
900.Tb.I	n	(P-10870)
900.Ex.A	n	(P-10870)
900.Ex.B	n	(P-10870)
900.Ex.C	n	(P-10870)
900.Ex.D	n	(P-10870)

TITLE 77 (CONT'D)

905.15	am	(P-8128)
905.100	am	(P-8128)
915.10	am	(P-10989)
915.20	am	(P-10989)
915.40	n	(P-10989)
915.50	n	(P-10989)
1100.70	am	(P-15255/91; A-16074)
1100.220	am	(P-15255/91; A-16074)
1100.330	am	(P-15255/91; A-16074)
1100.340	am	(P-15255/91; A-16074)
1100.350	am	(P-15255/91; A-16074)
1100.410	am	(P-15255/91; A-16074)
1100.420	am	(P-15255/91; A-16074)
1100.430	n	(P-15255/91; A-16074)
1100.510	am	(P-15255/91; A-16074)
1100.520	am	(P-15255/91; A-16074)
1100.530	am	(P-15255/91; A-16074)
1100.540	am	(P-15255/91; A-16074)
1100.550	am	(P-15255/91; A-16074)
1100.560	am	(P-15255/91; A-16074)
1100.570	am	(P-15255/91; A-16074)
1100.580	am	(P-15255/91; A-16074)
1100.590	am	(P-15255/91; A-16074)
1100.610	am	(P-15255/91; A-16074)
1100.630	am	(P-15255/91; A-16074)
1100.660	am	(P-15255/91; A-16074)
1100.670	am	(P-15255/91; A-16074)
1100.720	n	(P-15255/91; A-16074)
1100.730	n	(P-15255/91; A-16074)
1110.20	r	(P-15299/91; A-16108)
1110.30	am	(P-15299/91; A-16108)
1110.40	am	(P-15299/91; A-16108)
1110.55	am	(P-15299/91; A-16108)
1110.230	am	(P-15299/91; A-16108)
1110.240	n	(P-15299/91; A-16108)
1110.320	am	(P-15299/91; A-16108)
1110.420	am	(P-15299/91; A-16108)
1110.530	am	(P-15299/91; A-16108)
1110.630	am	(P-15299/91; A-16108)
1110.730	am	(P-15299/91; A-16108)
1110.830	am	(P-15299/91; A-16108)
1110.910	am	(P-15299/91; A-16108)
1110.920	am	(P-15299/91; A-16108)
1110.930	am	(P-15299/91; A-16108)
1110.1030	am	(P-15299/91; A-16108)
1110.1210	am	(P-15299/91; A-16108)
1110.1220	am	(P-15299/91; A-16108)
1110.1230	am	(P-15299/91; A-16108)
1110.1410	am	(P-15299/91; A-16108)
1110.1420	am	(P-15299/91; A-16108)
1110.1430	am	(P-15299/91; A-16108)
1110.1730	am	(P-15299/91; A-16108)
1110.1830	am	(P-15299/91; A-16108)
1110.2030	am	(P-15299/91; A-16108)
1110.2310	am	(P-15299/91; A-16108)
1110.2320	am	(P-15299/91; A-16108)
1110.2330	am	(P-15299/91; A-16108)
1110.2410	n	(P-15299/91; A-16108)
1110.2420	n	(P-15299/91; A-16108)
1110.2430	n	(P-15299/91; A-16108)
1110.30	am	(P-15299/91; A-16108)
1110.60	n	(E-13159) (P-15328)
1110.235	n	(E-13159) (P-15328)
1120.10	n	(E-13132)
1120.20	n	(P-5205) (E-13132)
1120.110	n	(P-5205) (E-13132)
1120.120	n	(P-5205) (E-13132)
1120.130	n	(P-5205) (E-13132)
1120.210	n	(P-5205) (E-13132)
1120.310	n	(P-5205) (E-13132)
1120.Ap.A	n	(P-5205) (E-13132)
1120.Tb.H	n	(P-5205)
1130.140	am	(P-4755)
1130.220	am	(P-4755)
1130.410	am	(P-4755)
1130.510	am	(P-4755)
1130.620	am	(P-4755)
1130.630	am	(P-4755)
1130.640	am	(P-4755)
1130.710	am	(P-4755)
1130.720	am	(P-4755)
1130.730	am	(P-4755)
1130.740	am	(P-4755)
1130.750	am	(E-13153)(P-15321)
1130.760	am	(P-4755)
1130.770	am	(P-4755)
1130.780	am	(P-4755)
1190.30	am	(P-3063)
1230.10	r	(P-5187)
1230.20	r	(P-5187)
1230.30	r	(P-5187)
1230.110	r	(P-5187)
1230.120	r	(P-5187)
1230.210	r	(P-5187)
1230.220	r	(P-5187)
1230.230	r	(P-5187)
1230.240	r	(P-5187)
1230.250	r	(P-5187)
1230.260	r	(P-5187)
1230.310	r	(P-5187)
1230.320	r	(P-5187)

TITLE 77 (CONT'D)

1230.410	r	(P-5187)
1230.420	r	(P-5187)
1230.Tb.A	r	(P-5187)
1230.Tb.B	r	(P-5187)
1240.10	r	(P-5225)
1240.20	r	(P-5225)
1240.30	r	(P-5225)
1240.40	r	(P-5225)
1240.50	r	(P-5225)
1240.60	r	(P-5225)
1240.70	r	(P-5225)
1240.Ap.A	r	(P-5225)
2030.10	n	(P-9083/91; A-2457)
2030.10	r	(P-9153/91; A-2530)
2030.20	n	(P-9083/91; A-2457)
2030.20	r	(P-9153/91; A-2530)
2030.30	n	(P-9083/91; A-2457)
2030.30	r	(P-9153/91; A-2530)
2030.40	n	(P-9083/91; A-2457)
2030.40	r	(P-9153/91; A-2530)
2030.50	r	(P-9153/91; A-2530)
2030.100	n	(P-9083/91; A-2457)
2030.105	n	(P-9083/91; A-2457)
2030.107	n	(P-9083/91; A-2457)
2030.110	r	(P-9153/91; A-2530)
2030.110	n	(P-9083/91; A-2457)
2030.115	n	(P-9083/91; A-2457)
2030.120	r	(P-9153/91; A-2530)
2030.120	n	(P-9083/91; A-2457)
2030.130	r	(P-9153/91; A-2530)
2030.130	n	(P-9083/91; A-2457)
2030.140	n	(P-9083/91; A-2457)
2030.150	n	(P-9083/91; A-2457)
2030.160	n	(P-9083/91; A-2457)
2030.210	r	(P-9153/91; A-2530)
2030.210	n	(P-9083/91; A-2457)
2030.220	r	(P-9153/91; A-2530)
2030.220	n	(P-9083/91; A-2457)
2030.230	r	(P-9153/91; A-2530)
2030.230	n	(P-9083/91; A-2457)
2030.310	r	(P-9153/91; A-2530)
2030.310	n	(P-9083/91; A-2457)
2030.320	r	(P-9153/91; A-2530)
2030.320	n	(P-9083/91; A-2457)
2030.330	r	(P-9153/91; A-2530)
2030.330	n	(P-9083/91; A-2457)
2030.340	r	(P-9153/91; A-2530)
2030.340	n	(P-9083/91; A-2457)
2030.350	r	(P-9153/91; A-2530)
2030.350	n	(P-9083/91; A-2457)
2030.360	n	(P-9083/91; A-2457)
2030.410	r	(P-9153/91; A-2530)
2030.410	n	(P-9083/91; A-2457)
2030.420	r	(P-9153/91; A-2530)
2030.420	n	(P-9083/91; A-2457)
2030.430	r	(P-9153/91; A-2530)
2030.430	n	(P-9083/91; A-2457)
2030.440	r	(P-9153/91; A-2530)
2030.440	n	(P-9083/91; A-2457)
2030.450	r	(P-9153/91; A-2530)
2030.450	n	(P-9083/91; A-2457)
2030.510	r	(P-9153/91; A-2530)
2030.510	n	(P-9083/91; A-2457)
2030.520	r	(P-9153/91; A-2530)
2030.520	n	(P-9083/91; A-2457)
2030.530	n	(P-9083/91; A-2457)
2030.540	n	(P-9083/91; A-2457)
2030.550	n	(P-9083/91; A-2457)
2030.610	r	(P-9153/91; A-2530)
2030.610	n	(P-9083/91; A-2457)
2030.620	r	(P-9153/91; A-2530)
2030.620	n	(P-9083/91; A-2457)
2030.630	r	(P-9153/91; A-2530)
2030.640	r	(P-9153/91; A-2530)
2030.710	r	(P-9153/91; A-2530)
2030.710	n	(P-9083/91; A-2457)
2030.720	r	(P-9153/91; A-2530)
2030.720	n	(P-9083/91; A-2457)
2030.730	r	(P-9153/91; A-2530)
2030.730	n	(P-9083/91; A-2457)
2030.740	r	(P-9153/91; A-2530)
2030.740	n	(P-9083/91; A-2457)
2030.750	r	(P-9153/91; A-2530)
2030.750	n	(P-9083/91; A-2457)
2030.760	r	(P-9153/91; A-2530)
2030.760	n	(P-9083/91; A-2457)
2030.810	r	(P-9153/91; A-2530)
2030.810	n	(P-9083/91; A-2457)
2030.820	r	(P-9153/91; A-2530)
2030.820	n	(P-9083/91; A-2457)
2030.830	n	(P-9083/91; A-2457)
2030.840	n	(P-9083/91; A-2457)
2030.850	n	(P-9083/91; A-2457)
2030.910	r	(P-9153/91; A-2530)
2030.910	n	(P-9083/91; A-2457)
2030.920	r	(P-9153/91; A-2530)
2030.930	r	(P-9153/91; A-2530)
2030.940	r	(P-9153/91; A-2530)
2030.950	r	(P-9153/91; A-2530)
2030.960	r	(P-9153/91; A-2530)
2030.970	r	(P-9153/91; A-2530)

TITLE 77 (CONT'D)		
2030.980	r	(P-9153/91; A-2530)
2030.1010	r	(P-9153/91; A-2530)
2030.1010	n	(P-9083/91; A-2457)
2030.1020	r	(P-9153/91; A-2530)
2030.1020	n	(P-9083/91; A-2457)
2030.1030	r	(P-9153/91; A-2530)
2030.1030	n	(P-9083/91; A-2457)
2030.1040	r	(P-9153/91; A-2530)
2030.1040	n	(P-9083/91; A-2457)
2030.1050	n	(P-9083/91; A-2457)
2030.1060	n	(P-9083/91; A-2457)
2030.1070	n	(P-9083/91; A-2457)
2030.1080	n	(P-9083/91; A-2457)
2030.1090	n	(P-9083/91; A-2457)
2030.1110	r	(P-9153/91; A-2530)
2030.1110	n	(P-9083/91; A-2457)
2030.1120	r	(P-9153/91; A-2530)
2030.1120	n	(P-9083/91; A-2457)
2030.1130	r	(P-9153/91; A-2530)
2030.1130	n	(P-9083/91; A-2457)
2030.1140	r	(P-9153/91; A-2530)
2030.1140	n	(P-9083/91; A-2457)
2030.1150	n	(P-9083/91; A-2457)
2030.1160	n	(P-9083/91; A-2457)
2030.1205	n	(P-9083/91; A-2457)
2030.1210	r	(P-9153/91; A-2530)
2030.1210	n	(P-9083/91; A-2457)
2030.1215	n	(P-9083/91; A-2457)
2030.1220	r	(P-9153/91; A-2530)
2030.1220	n	(P-9083/91; A-2457)
2030.1225	r	(P-9153/91; A-2530)
2030.1225	n	(P-9083/91; A-2457)
2030.1230	r	(P-9153/91; A-2530)
2030.1230	n	(P-9083/91; A-2457)
2030.1240	r	(P-9153/91; A-2530)
2030.1245	n	(P-9083/91; A-2457)
2030.1250	r	(P-9153/91; A-2530)
2030.1250	n	(P-9083/91; A-2457)
2030.1255	n	(P-9083/91; A-2457)
2030.1260	r	(P-9153/91; A-2530)
2030.1265	n	(P-9083/91; A-2457)
2030.1270	r	(P-9153/91; A-2530)
2030.1310	r	(P-9153/91; A-2530)
2030.1310	n	(P-9083/91; A-2457)
2030.1320	r	(P-9153/91; A-2530)
2030.1320	n	(P-9083/91; A-2457)
2030.1330	r	(P-9153/91; A-2530)
2030.1340	r	(P-9153/91; A-2530)
2030.1350	r	(P-9153/91; A-2530)
2031.10	r	(P-9149/91; A-2455)
2032.10	r	(P-9218/91; A-2533)
2032.15	r	(P-9218/91; A-2533)
2032.20	r	(P-9218/91; A-2533)
2032.25	r	(P-9218/91; A-2533)
2032.30	r	(P-9218/91; A-2533)
2032.35	r	(P-9218/91; A-2533)
2032.40	r	(P-9218/91; A-2533)
2032.45	r	(P-9218/91; A-2533)
2032.50	r	(P-9218/91; A-2533)
2032.55	r	(P-9218/91; A-2533)
2032.60	r	(P-9218/91; A-2533)
2056.1	am	(P-4567; A-15917)
2056.5	am	(P-4567; A-15917)
2056.15	am	(P-4567; A-15917)
2056.20	am	(P-4567; A-15917)
2056.25	am	(P-4567; A-15917)
2056.50	am	(P-4567; A-15917)
2056.55	am	(P-4567; A-15917)
2056.60	am	(P-4567; A-15917)
2056.61	am	(P-4567; A-15917)
2056.65	#	(P-4567; A-15917)
2056.70	#	(P-4567; A-15917)
2056.75	am	(P-4567; A-15917)
2056.210	am	(P-4567; A-15917)
2056.215	am	(P-4567; A-15917)
2056.301	#	(P-4567; A-15917)
2056.301	am	(P-4567; A-15917)
2056.303	#	(P-4567; A-15917)
2056.303	am	(P-4567; A-15917)
2056.305	am	(P-4567; A-15917)
2056.310	am	(P-4567; A-15917)
2056.315	am	(P-4567; A-15917)
2056.320	am	(P-4567; A-15917)
2056.325	am	(P-4567; A-15917)
2056.330	am	(P-4567; A-15917)
2056.405	am	(P-4567; A-15917)
2056.410	am	(P-4567; A-15917)
2056.415	am	(P-4567; A-15917)
2056.420	am	(P-4567; A-15917)
2056.500	am	(P-4567; A-15917)
2056.505	am	(P-4567; A-15917)
2056.510	r	(P-4567; A-15917)
2056.525	am	(P-4567; A-15917)
2056.600	am	(P-4567; A-15917)
2056.601	n	(P-4567; A-15917)
2056.603	n	(P-4567; A-15917)
2056.605	am	(P-4567; A-15917)
2056.607	n	(P-4567; A-15917)
2056.610	am	(P-4567; A-15917)
2056.615	r	(P-4567; A-15917)
2056.620	n	(P-4567; A-15917)

TITLE 77 (CONT'D)		
2056.625	n	(P-4567; A-15917)
2056.630	n	(P-4567; A-15917)
2056.635	n	(P-4567; A-15917)
2056.640	n	(P-4567; A-15917)
2056.645	n	(P-4567; A-15917)
2056.650	n	(P-4567; A-15917)
2056.655	n	(P-4567; A-15917)
2056.660	n	(P-4567; A-15917)
2056.705	am	(P-4567; A-15917)
2056.Ap.A	r	(P-4567; A-15917)
2080.10	am	(P-11367; O-16691; RC-16692)
2080.20	am	(P-11367; O-16691) RC-16692)
2080.30	am	(P-11367; O-16691) RC-16692)
2080.40	am	(P-11367; O-16691) RC-16692)
2080.50	am	(P-11367; O-16691) RC-16692)
2080.60	am	(P-11367; O-16691) RC-16692)
2080.70	am	(P-11367; O-16691) RC-16692)
2080.80	am	(P-11367; O-16691) RC-16692)
2080.120	am	(P-11367; O-16691) (RC-16692)
2080.140	am	(P-11367; O-16691) RC-16692)
2080.150	am	(P-11367; O-16691) RC-16692)
2080.160	am	(P-11367; O-16691) RC-16692)
2080.170	am	(P-11367; O-16691) RC-16692)
2090.20	am	(P-5104; A-11807)
2090.40	am	(P-5104; A-11807)
2090.70	am	(P-5104; A-11807)
2090.70	am	(P-5104; A-11807)
2090.100	am	(P-5104; A-11807)
2510.50	am	(P-17444/91; A-8980)
2510.60	am	(P-17444/91; A-8980)
2510.70	am	(P-17444/91; A-8980)
.Ap.B	am	(P-17444/91; A-8980)
.Ap.C	am	(P-17444/91; A-8980)
3000.200	am	(P-13463)
3000.210	am	(P-13463)
3000.230	am	(P-13463)
3000.Ap.A	r	(P-13463)
3000.Ap.B	r	(P-13463)
TITLE 80		
150.210	am	(E-17372) (P-17959)
150.220	am	(P-17959)
150.410	am	(P-4360; A-11835)
150.420	am	(P-4360; A-11835)
150.430	am	(P-4360; A-11835)
150.Ap.A	r	(P-17959)
150.Ap.B	#	(P-17959)
302.80	am	(P-336; A-8375)
302.150	am	(P-11390; A-17607) (E-11645; O-13371)
302.180	am	(P-17187)
302.325	n	(P-11390; A-17607) (E-11645; O-13371)
302.610	am	((P-17187)
302.822	am	(P-8675; A-13489)
303.102	am	(P-327; A-8368)
303.115	n	(P-327; A-8368)
303.125	am	(P-327; A-8368)
303.175	n	(P-327; A-8368)
303.290	am	(P-327; A-8368)
303.385	n	(P-327; A-8368)
304.51	n	(P-334; RC-10499)
310.30	am	(P-18139)
310.40	am	(P-18139)
310.100	am	(P-342; A-8382) (E-711)
310.110	am	(P-12051/91; A-3450) (P-13679) (E-13950)
310.130	am	(P-12051/91; A-3450) (P-13679) (E-13950
310.230	am	(P-342; A-8382)
310.270	am	(P-18139)
310.280	am	(P-12051/91; A-3450)
310.290	am	(P-12051/91; A-3450) (P-6521) (E-6888) (E-8239) (P-14001) (E-14452)
310.450	am	(P-14001) (E-14452)
310.455	am	(P-14001) (E-14452)
310.470	am	(P-14001) (E-14452)
310.490	am	(P-342; A-8382) (E-711)
310.530	am	(P-14001) (E-14452)
310.540	am	(P-14001) (E-14452)
310.Ap.A	am	(P-342; A-8382) (PP-5068; RC-6899) (P-13179) (P-18139)
.Tb.C	am	(P-18139)

TITLE 80 (CONT'D)

.Tb.D	am	(P-18139)
.Tb.E	am	(P-18139)
.Tb.F	am	(P-18139)
.Tb.O	am	(P-18139)
.Tb.P	am	(P-18139)
.Tb.U	am	(P-18139)
310.Ap.C	am	(P-14001) (E-14452)
310.Ap.D	am	(P-14001) (E-14452)
.Tb.A	am	(PP-7056)
.Tb.B	am	(PP-7056)
.Tb.C	am	(P-342; A-8382)
.Tb.D	am	(P-342; A-8382)
.Tb.E	am	(P-342; A-8382)
.Tb.F	am	(P-342; A-8382)
.Tb.G	am	(P-342; A-8382)
.Tb.H	am	(P-342; A-8382)
.Tb.I	am	(P-342; A-8382)
.Tb.J	am	(P-342; A-8382)
.Tb.K	am	(P-342; A-8382)
.Tb.M	am	(P-13179)
.Tb.O	am	(P-342; A-8382)
.Tb.P	am	(P-342; A-8382)
.Tb.Q	am	(P-342; A-8382)
.Tb.R	am	(P-342; A-8382)
.Tb.S	am	(P-342; A-8382)
.Tb.T	am	(PP-5068; RC-6899)
.Tb.V	am	(PP-5068; RC-6899)
.Tb.W	am	(P-342; A-8382)
.Tb.X	am	(P-342; A-8382)
.Tb.Y	am	(P-342; A-8382)
.Tb.Z	am	(P-342; A-8382)
310.Ap.B	am	(P-12051/91; A-3450)
		(P-13679) (E-13950)
420.330	am	(P-15342)
620.130	am	(P-11724) (P-12409)
		(P-15347)
1120.80	n	(P-5554; A-13500)
		(E-6052; RC-8253)
1540.80	am	(P-7325; A-14407)
1540.90	am	(P-7325; A-14407)
1540.100	am	(P-7325; A-14407)
1540.130	am	(P-7325; A-14407)
1650.210	am	(P-12384)
1650.230	am	(P-12384)
1650.240	am	(P-12384)
1650.290	am	(P-12384)
1650.330	am	(P-12384)
1650.340	am	(P-12384)
1650.370	#	(P-12384)
1650.410	am	(P-12384)
1650.450	am	(P-12384)
1650.460	#	(P-12384)
1650.510	am	(P-12384)
1650.520	am	(P-12384)
1650.570	am	(P-12384)
1650.620	am	(P-12384)
1650.630	#	(P-12384)
1650.640	am	(P-12384)
1650.650	am	(P-12384)
2110.30	am	(P-12064/91; A-13801)
2110.210	am	(P-12064/91; A-13801)
2110.440	am	(P-12064/91; A-13801)
2110.520	am	(P-12064/91; A-13801)
2110.610	am	(P-12064/91; A-13801)
2120.30	am	(P-12074/91; A-13811)
2120.210	am	(P-12074/91; A-13811)
2120.220	am	(P-12074/91; A-13811)
2120.310	am	(P-12074/91; A-13811)
2120.440	am	(P-12074/91; A-13811)
2120.510	am	(P-12074/91; A-13811)
2120.520	am	(P-12074/91; A-13811)
2120.610	am	(P-12074/91; A-13811)
2650.10	am	(P-3235; A-11438)
2650.25	am	(P-3235; A-11438)
2800.410	am	(P-7079; A-13823)
2800.650	n	(P-15199/91; A-4831)

TITLE 83

110.10	r	(P-18018/91;A-7654)
110.30	r	(P-18018/91;A-7654)
200.715	n	(P-1936; W-7737)
255.20	am	(P-13703)
275.20	am	(P-8269)
280.100	am	(P-9801/91; A-11023)
280.138	am	(P-12810)
305.20	am	(P-16538/91; A-6180)
410.360	r	(P-11899/91; A-2544)
440.200	am	(P-6533; A-16577)
440.700	am	(P-6533; A-16577)
445.40	am	(P-11025/91; A-2535)
445.50	am	(P-11025/91; A-2535)
445.70	am	(P-11025/91; A-2535)
500.335	r	(P-11905/91; A-2550)
535.100	am	(P-6538; A-16582)
745.10	am	(P-10513)
745.15	am	(P-10513)
745.20	am	(P-10513)
745.30	am	(P-10513)
745.110	am	(P-10513)
745.200	am	(P-10513)

TITLE 83 (CONT'D)

745.210	am	(P-10513)
745.220	am	(P-10513)
745.221	am	(P-10513)
745.225	am	(P-10513)
745.300	am	(P-10513)
745.Ex.B	am	(P-10513)
755.10	am	(P-16709)
755.105	am	(P-16709)
755.500	n	(P-16709)
755.505	n	(P-16709)
755.510	n	(P-16709)
755.515	n	(P-16709)
755.520	n	(P-16709)
755.525	n	(P-16709)
755.Ex.A	n	(P-16709)
755.Ex.B	n	(P-16709)
755.Ex.C	n	(P-16709)
755.Ex.D	n	(P-16709)
755.Ex.E	n	(P-16709)
755.Ex.F	n	(P-16709)
755.Ex.G	n	(P-16709)
755.Ex.H	n	(P-16709)
755.Ex.I	n	(P-16709)
755.Ex.J	n	(P-16709)
755.Ex.K	n	(P-16709)
755.Ex.L	n	(P-16709)
755.Ex.M	n	(P-16709)
755.Ex.N	n	(P-16709)
756.10	am	(P-15605)
756.15	am	(P-15605)
756.20	am	(P-15605)
756.100	am	(P-15605)
756.110	am	(P-15605)
756.115	am	(P-15605)
756.120	am	(P-15605)
756.200	am	(P-15605)
756.210	am	(P-14004) (E-14470)
		(P-15605)
756.220	am	(P-15605)
756.300	am	(P-15605)
757.10	n	(P-6542: A-17981)
757.15	n	(P-6542; A-17981)
757.100	n	(P-6542; A-17981)
757.105	n	(P-6542; A-17981)
757.110	n	(P-6542; A-17981)
757.115	n	(P-6542; A-17981)
757.120	n	(P-6542; A-17981)
757.125	n	(P-6542; A-17981)
757.130	n	(P-6542; A-17981)
757.200	n	(P-6542; A-17981)
757.205	n	(P-6542; A-17981)
757.210	n	(P-6542; A-17981)
757.215	n	(P-6542; A-17981)
757.220	n	(P-6542; A-17981)
757.225	n	(P-6542; A-17981)
757.230	n	(P-6542; A-17981)
757.235	n	(P-6542; A-17981)
757.240	n	(P-6542; A-17981)
757.245	n	(P-6542; A-17981)
757.300	n	(P-6542; A-17981)
757.Ex.A	n	(P-6542; A-17981)
757.Ex.B	n	(P-6542; A-17981)
757.Ex.C	n	(P-6542; A-17981)
757.Ex.D	n	(P-6542; A-17981)
757.Ex.E	n	(P-6542; A-17981)
760.10	am	(P-7572; A-16573)
760.20	am	(P-14340/91; A-6177)
		(P-16535/91; A-6177)
760.20	r	(P-7572; A-16573)
770.10	n	(P-3242; A-17615)
770.20	n	(P-3242; A-17615)
770.30	n	(P-3242; A-17615)
785.1	n	(P-17427/91; A-11009)
785.5	n	(P-17427/91; A-11009)
785.10	n	(P-17427/91; A-11009)
785.15	n	(P-17427/91; A-11009)
785.20	n	(P-17427/91; A-11009)
785.25	n	(P-17427/91; A-11009)
785.30	n	(P-17427/91; A-11009)
785.35	n	(P-17427/91; A-11009)
785.40	n	(P-17427/91; A-11009)
785.45	n	(P-17427/91; A-11009)
785.50	n	(P-17427/91; A-11009)
785.55	n	(P-17427/91; A-11009)
785.60	n	(P-17427/91; A-11009)
785.65	n	(P-17427/91; A-11009)

TITLE 86

100.3700	am	(P-7306; C-10084)
100.9920	n	(P-7306; C-10084)
110.190	n	(P-14196/91; A-2624)
130.220	am	(P-14554)
130.310	am	(P-15013/91; A-1642)
150.Tb.A	am	(P-14563) (E-14889)
180.101	am	(P-15948/91; A-4859)
180.130	am	(P-15948/91; A-4859)
180.140	am	(P-15948/91; A-4859)
180.145	am	(P-15948/91; A-4859)
190.101	am	(P-15958/91; A-4867)
190.110	am	(P-15958/91; A-4867)
190.120	am	(P-15958/91; A-4867)

TITLE 86 (CONT'D)

190.170	am	(P-15958/91; A-4867)
190.175	am	(P-15958/91; A-4867)
295.101	n	(P-18506/91; A-7691)
295.105	n	(P-18506/91; A-7691)
295.110	n	(P-18506/91; A-7691)
295.115	n	(P-18506/91; A-7691)
295.120	n	(P-18506/91; A-7691)
430.110	am	(P-6762; A-14688)
430.125	n	(P-6762; A-14688)
430.160	am	(P-6762; A-14688)
435.120	am	(P-6777; A-14702)
435.140	am	(P-6777; A-14702)
435.160	am	(P-6777; A-14702)
460.101	am	(P-15417/91; A-4876)
460.110	am	(P-15417/91; A-4876)
480.101	am	(P-15422/91; A-3578)
490.10	r	(P-16913/91; A-5988)
490.20	r	(P-16913/91; A-5988)
490.30	r	(P-16913/91; A-5988)
490.40	r	(P-16913/91; A-5988)
490.50	r	(P-16913/91; A-5988)
490.60	r	(P-16913/91; A-5988)
490.70	r	(P-16913/91; A-5988)
490.80	r	(P-16913/91; A-5988)
490.90	r	(P-16913/91; A-5988)
490.100	r	(P-16913/91; A-5988)
490.110	r	(P-16913/91; A-5988)
490.120	r	(P-16913/91; A-5988)
490.130	r	(P-16913/91; A-5988)
490.140	r	(P-16913/91; A-5988)
490.150	r	(P-16913/91; A-5988)
490.160	r	(P-16913/91; A-5988)
490.170	r	(P-16913/91; A-5988)
490.180	r	(P-16913/91; A-5988)
490.190	r	(P-16913/91; A-5988)
490.200	r	(P-16913/91; A-5988)
510.101	am	(P-16932/91; A-5990)
510.110	am	(P-16932/91; A-5990)
510.115	r	(P-16932/91; A-5990)
510.120	am	(P-16932/91; A-5990)
510.131	am	(P-16932/91; A-5990)
510.145	am	(P-16932/91; A-5990)
510.160	am	(P-16932/91; A-5990)
535.101	n	(P-15340) (E-15577)
535.105	n	(P-15340) (E-15577)
535.110	n	(P-15340) (E-15577)
535.115	n	(P-15340) (E-15577)
535.120	n	(P-15340) (E-15577)
535.125	n	(P-15340) (E-15577)
535.130	n	(P-15340) (E-15577)
535.135	n	(P-15340) (E-15577)
535.140	n	(P-15340) (E-15577)
535.145	n	(P-15340) (E-15577)
535.150	n	(P-15340) (E-15577)
3000.100	am	(P-3802; A-13310)
3000.200	am	(P-3802; A-13310)
3000.210	am	(P-3802; A-13310)
3000.220	am	(P-3802; A-13310)
3000.230	am	(P-3802; A-13310)
3000.245	am	(P-3802; A-13310)
3000.270	am	(P-3802; A-13310)
3000.420	am	(P-3802; A-13310)
3000.425	am	(P-3802; A-13310)
3000.610	am	(P-3802; A-13310)
3000.620	am	(P-3802; A-13310)
3000.625	am	(P-3802; A-13310)
3000.645	am	(P-3802; A-13310)
3000.910	am	(P-3802; A-13310)
3000.1010	am	(P-3802; A-13310)
3000.1070	am	(P-3802; A-13310)

TITLE 89

103.25	n	(P-14178)
103.35	n	(P-14178)
104.10	am	(P-7793; A-16632)
104.70	am	(P-7793; A-16632)
104.102	am	(P-7793; A-16632)
104.202	am	(P-4741) (P-12758; A-18834)
104.204	am	(P-4741) (P-12758; A-18834)
104.206	am	(P-2752; A-12903)
104.208	am	(P-2752; A-12903)
104.209	n	(P-4741)
104.210	am	(P-2752; A-12903) (P-4741) (P-12758; A-18834)
104.212	am	(P-4741) (P-12758; A-18834)
104.221	am	(P-4741) (P-12758; A-18834)
104.230	am	(P-4741)
104.235	am	(P-7793; A-16632)
104.244	am	(P-4741) (P-12758; A-18834)
104.246	am	(P-4741) (P-12758; A-18834)
104.248	n	(P-7793; A-16632)
104.272	am	(P-2752; A-12903)
104.273	am	(P-2752; A-12903)

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104.274	am	(P-2752; A-12903)
104.295	am	(P-7793; A-16632)
110.10	am	(P-16845/91; RC-15185; A-16618)
110.30	am	(P-3405; W-5082) (P-4704) (P-13207)
111.101	am	(P-16851/91; A-11577) (P-16491)
112.9	am	(P-13381) (E-13629)
112.70	am	(P-3335)
112.71	am	(P-3335)
112.72	am	(P-3335)
112.74	am	(P-3335)
112.78	am	(P-3335)
112.79	am	(P-3335)
112.82	am	(P-3335)
112.110	am	(P-16596/91; A-11550)
112.115	am	(P-18062/91; A-9972)
112.127	am	(P-13195)
112.138	r	(P-11399; A-17724)
	•	(E-11652)
112.153	am	(P-18216)
112.154	r	(P-14522)
112.300	am	(P-18062/91; A-9972)
112.330	am	(P-15277)
112.400	am	(P-16596/91; A-11550)
113.9	am	(P-13383) (E-13641)
113.40	am	(P-14994/91; A-3468)
113.50	am	(P-14994/91; A-3468)
113.108	r	(P-16610/91; A-11565)
113.109	r	(P-16610/91; A-11565)
113.110	r	(P-16610/91; A-11565)
113.113	am	(P-16610/91; A-11565)
113.130	am	(P-18073/91; A-9986)
113.154	r	(P-14999)
113.253	am	(P-18073/91; A-9986)
113.260	am	(P-18073/91; A-9986)
113.309	n	(P-17457) (E-17764)
113.	r	(P-14994/91; A-3468)
113.330	n	(P-14533) (E-14722)
113.400	n	(P-14994/91; A-3468)
113.405	n	(P-14994/91; A-3468)
113.410	n	(P-14994/91; A-3468)
	am	(P-14533) (E-14722)
113.415	n	(P-14994/91; A-3468)
113.420	n	(P-14994/91; A-3468)
113.425	n	(P-14994/91; A-3468) (P-17047) (E-17154)
113.430	n	(P-14994/91; A-3468) (P-17047) (E-17154)
113.435	n	(P-14994/91; A-3468)
113.440	#	(P-14994/91; A-3468)
113.440	am	(P-14994/91; A-3468)
113.445	n	(P-14994/91; A-3468)
113.450	n	(P-17457) (E-17764)
114.1	am	(P-15008/91; A-3512) (P-11401; W-17377) (E-11662) (P-13766; A-18815)
114.2	n	(P-15008/91; A-3512) (P-11401; W-17377) (E-11662) (P-13766; A-18815)
114.9	am	(P-13395) (E-13651)
114.60	am	(P-15008/91; A-3512)
114.61	am	(P-15008/91; A-3512)
114.62	am	(P-15008/91; A-3512)
114.63	am	(P-15008/91; A-3512)
114.64	am	(P-15008/91; A-3512)
114.70	am	(P-15008/91; A-3512)
114.80	am	(P-15008/91; A-3512)
114.120	am	(P-15008/91; A-3512) (P-15810) (E-16276)
114.121	am	(P-15008/91; A-3512)
	r	(P-15810) (E-16276)
114.122	r	(P-15008/91; A-3512)
114.123	r	(P-15008/91; A-3512)
114.124	am	(P-15008/91; A-3512)
	r	(P-15810) (E-16276)
114.125	r	(P-15810) (E-16276)
114.126	r	(P-15810) (E-16276)
114.127	r	(P-15810) (E-16276)
114.128	am	(P-4216; A-13297) (E-4540)
114.128	r	(P-15810) (E-16276)
114.129	r	(P-15810) (E-16276)
114.130	r	(P-15810) (E-16276)
114.135	am	(P-4216; A-13297) (E-4540)
114.135	r	(P-15810) (E-16276)
114.270	r	(P-15008)
114.351	am	(P-11401; W-17377) (E-11662) (P-13766; A-18815)
114.352	am	(P-11401; W-17377) (E-11662) (P-13766; A-18815)
114.353	am	(P-11401; W-17377) (E-11662) (P-13766; A-18815)
114.400	am	(P-15008/91; A-3512)

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114.406	n	(P-17459) (E-17772)
114.420	am	(P-15008/91; A-3512)
		(P-15008)
114.430	am	(P-15287)
114.440	n	(P-14538) (E-14769)
115.10	am	(P-17897/91; A-10291)
		(P-17066)
115.30	am	(P-17897/91; A-10291)
115.34	am	(P-17897/91; A-10291)
115.40	am	(P-17897/91; A-10291)
116.400	am	(P-13764) (E-13961)
116.500	am	(P-16623/91; A-5350)
		(P-13764) (E-13961)
116.520	am	(P-16623/91; A-5350)
116.520	r	(P-13764) (E-13961)
117.10	am	(P-8938; A-16644)
118.200	am	(P-17040/91; A-11607)
120.11	am	(P-16625/91; A-11582)
120.31	am	(P-16625/91; A-11582)
120.50	r	(P-12137/91; A-139)
120.60	am	(P-16625/91; A-11582)
120.64	am	(P-16625/91; A-11582)
120.80	am	(P-16856/91; A-10034)
120.200	n	(P-12137/91; A-139)
120.208	r	(P-12137/91; A-139)
120.210	r	(P-12137/91; A-139)
120.211	r	(P-12137/91; A-139)
120.212	r	(P-12137/91; A-139)
120.215	r	(P-12137/91; A-139)
120.216	r	(P-12137/91; A-139)
120.217	r	(P-12137/91; A-139)
120.218	r	(P-12137/91; A-139)
120.224	r	(P-12137/91; A-139)
120.225	r	(P-12137/91; A-139)
120.230	r	(P-12137/91; A-139)
120.235	r	(P-12137/91; A-139)
120.236	r	(P-12137/91; A-139)
120.240	r	(P-12137/91; A-139)
120.245	r	(P-12137/91; A-139)
120.250	r	(P-12137/91; A-139)
120.255	r	(P-12137/91; A-139)
120.260	r	(P-12137/91; A-139)
120.261	r	(P-12137/91; A-139)
120.262	r	(P-12137/91; A-139)
120.270	r	(P-12137/91; A-139)
120.271	r	(P-12137/91; A-139)
120.272	r	(P-12137/91; A-139)
120.273	r	(P-12137/91; A-139)
120.275	r	(P-12137/91; A-139)
120.276	r	(P-12137/91; A-139)
120.280	r	(P-12137/91; A-139)
120.281	r	(P-12137/91; A-139)
120.282	r	(P-12137/91; A-139)
120.283	r	(P-12137/91; A-139)
120.284	r	(P-12137/91; A-139)
120.285	r	(P-12137/91; A-139)
120.290	r	(P-12137/91; A-139)
120.295	r	(P-12137/91; A-139)
120.319	am	(P-12137/91; A-139)
120.320	am	(P-12137/91; A-139)
120.321	am	(P-12137/91; A-139)
120.322	am	(P-12137/91; A-139)
120.323	am	(P-12137/91; A-139)
120.382	am	(P-16625/91; A-11582)
120.384	am	(P-7761; A-17290)
120.385	r	(P-14544)
120.390	am	(P-16625/91; A-11582)
120.391	am	(P-16625/91; A-11582)
121.3	am	(P-13385)
121.23	r	(P-15813) (E-16221)
121.24	r	(P-15813) (E-16221)
121.25	am	(P-8898) (E-16221)
121.26	r	(P-15813) (E-16221)
121.27	r	(P-15813) (E-16221)
121.28	r	(P-15813) (E-16221)
121.29	r	(P-15813) (E-16221)
121.34	am	(P-8039; A-16624)
121.41	am	(P-13385)
121.58	am	(P-2420; A-10011)
121.59	am	(P-13385)
121.60	am	(PP-16345)
121.61	am	(PP-16345)
121.63	am	(E-757) (P-6708)
		(P-18086; A-10011)
		(P-6708; A-13900)
		(PP-16345)
121.72	am	(P-2420; A-10011)
121.73	am	(P-2420; A-10011)
121.76	n	(P-13385)
121.91	am	(P-14186/91; A-10011)
121.94	am	(P-14999/91; A-10011)
121.160	n	(P-15813) (E-16221)
121.162	n	(P-15813) (E-16221)
121.164	n	(P-15813) (E-16221)
121.166	n	(P-15813) (E-16221)
121.170	n	(P-15813) (E-16221)
121.172	n	(P-15813) (E-16221)
121.174	n	(P-15813) (E-16221)
121.176	n	(P-15813) (E-16221)
121.178	n	(P-15813) (E-16221)
121.180	n	(P-15813) (E-16221)

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121.182	n	(P-15813) (E-16221)
121.184	n	(P-15813) (E-16221)
121.186	n	(P-15813) (E-16221)
121.188	n	(P-15813) (E-16221)
121.190	n	(P-15813) (E-16221)
130.200	am	(P-6931; A-13292)
140.2	am	(P-17171/91; A-174)
		(P-6936; A-17302)
140.5	am	(P-17171/91; A-174)
140.11	am	(P-6949/91; A-3552)
140.12	am	(P-12116) (P-17049)
140.13	am	(P-4708)
140.14	am	(P-4708)
140.15	am	(P-7775; A-17302)
140.16	am	(P-4708) (P-8047;
		A-17302)
140.17	am	(P-8047; A-17302)
140.19	am	(P-4708)
140.27	am	(P-65; A-10050) (E-300)
140.31	n	(P-4708) (P-11721)
		(E-11947)
140.32	n	(P-4708)
140.33	n	(P-4708)
140.80	n	(P-15019) (E-15109)
140.82	n	(P-15019) (E-15109)
140.84	n	(P-15019) (E-15109)
140.94	n	(P-15933/91; A-6408)
140.94	am	(P-15019) (E-15109)
140.95	n	(P-15933/91; A-6408)
140.95	am	(P-15019) (E-15109)
140.413	am	(P-6719; A-17302)
140.420	am	(P-10145; W-14476)
140.421	am	(P-7576; A-17302)
		(P-10145; W-14476)
140.440	am	(P-12171/91; A-4006)
140.441	am	(P-12171/91; A-4006)
140.442	am	(P-12171/91; A-4006)
140.449	am	(P-12171/91; A-4006)
140.469	am	(P-13685/91; A-3552)
140.485	am	(P-16495)
140.488	am	(P-16495)
140.492	am	(P-13397)
140.511	am	(P-17461)
140.512	am	(P-13274/91; A-6849)
140.513	r	(P-13274/91; A-6849)
140.514	am	(P-11555/91; A-4006)
140.525	am	(P-13211) (E-13337)
140.526	r	(P-472; W-14477)
		(P-9393)
140.527	r	(P-472; W-14477)
		(P-9393)
140.528	r	(P-472; W-14477)
		(P-9393)
140.529	r	(P-472; W-14477)
		(P-9393)
140.530	am	(P-15933/91; A-6408)
140.538	am	(P-15933/91; A-6408)
		(P-13211) (E-13337)
140.539	am	(P-472; A-11174)
140.543	am	(P-3045; A-12186)
140.552	am	(P-15933/91; A-6408)
140.560	am	(P-5585/91; A-7017)
		(P-12838)
140.561	am	(P-7482/91; A-3552)
140.562	am	(P-15933/91; A-6408)
140.565	n	(P-1492; A-12186)
140.566	am	(P-4708; A-15561)
140.569	am	(P-15933/91;A-6408;
		RQ-9138; EC-11348)
140.570	am	(P-12838)
140.571	am	(P-12838)
140.572	am	(P-12838)
140.573	am	(P-12838)
140.574	am	(P-12838)
140.579	am	(P-3409; A-12186)
		(P-12838)
140.580	r	(P-12838)
140.581	r	(P-12838)
140.583	am	(P-15933/91; A-6408)
140.600	n	(P-472; W-14477)
140.602	n	(P-472; W-14477)
140.604	n	(P-472; W-14477)
140.606	n	(P-472; W-14477)
140.608	n	(P-472; W-14477)
140.610	n	(P-472; W-14477)
140.612	n	(P-472; W-14477)
140.614	n	(P-472; W-14477)
140.642	am	(P-17956) (E-18097)
140.646	am	(P-6949/91; A-1877)
140.648	am	(P-17209)
140.700	am	(P-7576)
140.835	r	(P-15933/91; A-6408)
140.Tb.J	r	(P-12838)
140.Tb.K	am	(P-15296)
141.10	r	(P-12132/91; A-7922)
141.100	r	(P-12132/91; A-7922)
141.200	r	(P-12132/91; A-7922)
141.240	r	(P-12132/91; A-7922)
141.280	r	(P-12132/91; A-7922)
141.320	r	(P-12132/91; A-7922)
141.360	r	(P-12132/91; A-7922)

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141.400	r	(P-12132/91; A-7922)
141.440	r	(P-12132/91; A-7922)
141.480	r	(P-12132/91; A-7922)
141.520	r	(P-12132/91; A-7922)
141.560	r	(P-12132/91; A-7922)
141.600	r	(P-12132/91; A-7922)
141.640	r	(P-12132/91; A-7922)
141.680	r	(P-12132/91; A-7922)
141.720	r	(P-12132/91; A-7922)
141.760	r	(P-12132/91; A-7922)
141.800	r	(P-12132/91; A-7922)
141.840	r	(P-12132/91; A-7922)
141.880	r	(P-12132/91; A-7922)
141.920	r	(P-12132/91; A-7922)
141.960	r	(P-12132/91; A-7922)
141.1000	r	(P-12132/91; A-7922)
141.1040	r	(P-12132/91; A-7922)
141.1080	r	(P-12132/91; A-7922)
141.1120	r	(P-12132/91; A-7922)
141.1125	r	(P-12132/91; A-7922)
141.1160	r	(P-12132/91; A-7922)
141.1200	r	(P-12132/91; A-7922)
141.1240	r	(P-12132/91; A-7922)
141.1280	r	(P-12132/91; A-7922)
141.1320	r	(P-12132/91; A-7922)
141.1360	r	(P-12132/91; A-7922)
141.1400	r	(P-12132/91; A-7922)
141.1480	r	(P-12132/91; A-7922)
141.1500	r	(P-12132/91; A-7922)
141.1520	r	(P-12132/91; A-7922)
141.1560	r	(P-12132/91; A-7922)
141.1600	r	(P-12132/91; A-7922)
141.1640	r	(P-12132/91; A-7922)
141.1680	r	(P-12132/91; A-7922)
141.1720	r	(P-12132/91; A-7922)
141.1760	r	(P-12132/91; A-7922)
141.1800	r	(P-12132/91; A-7922)
141.1840	r	(P-12132/91; A-7922)
141.1880	r	(P-12132/91; A-7922)
141.1920	r	(P-12132/91; A-7922)
141.1960	r	(P-12132/91; A-7922)
141.2000	r	(P-12132/91; A-7922)
141.2040	r	(P-12132/91; A-7922)
141.2080	r	(P-12132/91; A-7922)
141.2120	r	(P-12132/91; A-7922)
141.2160	r	(P-12132/91; A-7922)
141.2200	r	(P-12132/91; A-7922)
141.2240	r	(P-12132/91; A-7922)
141.2280	r	(P-12132/91; A-7922)
141.2320	r	(P-12132/91; A-7922)
141.2360	r	(P-12132/91; A-7922)
141.2400	r	(P-12132/91; A-7922)
141.2440	r	(P-12132/91; A-7922)
141.2480	r	(P-12132/91; A-7922)
141.2520	r	(P-12132/91; A-7922)
141.2560	r	(P-12132/91; A-7922)
141.2600	r	(P-12132/91; A-7922)
141.2640	r	(P-12132/91; A-7922)
141.2680	r	(P-12132/91; A-7922)
141.2720	r	(P-12132/91; A-7922)
141.2760	r	(P-12132/91; A-7922)
141.2800	r	(P-12132/91; A-7922)
141.2840	r	(P-12132/91; A-7922)
141.2880	r	(P-12132/91; A-7922)
141.2920	r	(P-12132/91; A-7922)
141.2960	r	(P-12132/91; A-7922)
141.3000	r	(P-12132/91; A-7922)
141.3040	r	(P-12132/91; A-7922)
141.3080	r	(P-12132/91; A-7922)
141.3120	r	(P-12132/91; A-7922)
141.3160	r	(P-12132/91; A-7922)
141.3200	r	(P-12132/91; A-7922)
141.3240	r	(P-12132/91; A-7922)
141.3280	r	(P-12132/91; A-7922)
141.3320	r	(P-12132/91; A-7922)
141.3360	r	(P-12132/91; A-7922)
141.3400	r	(P-12132/91; A-7922)
141.3440	r	(P-12132/91; A-7922)
141.3480	r	(P-12132/91; A-7922)
141.3520	r	(P-12132/91; A-7922)
141.3560	r	(P-12132/91; A-7922)
141.3600	r	(P-12132/91; A-7922)
141.3640	r	(P-12132/91; A-7922)
141.3680	r	(P-12132/91; A-7922)
141.3720	r	(P-12132/91; A-7922)
141.3760	r	(P-12132/91; A-7922)
141.3800	r	(P-12132/91; A-7922)
141.3840	r	(P-12132/91; A-7922)
141.3880	r	(P-12132/91; A-7922)
141.3920	r	(P-12132/91; A-7922)
141.3960	r	(P-12132/91; A-7922)
141.4000	r	(P-12132/91; A-7922)
141.4040	r	(P-12132/91; A-7922)
141.4080	r	(P-12132/91; A-7922)
141.4120	r	(P-12132/91; A-7922)
141.4160	r	(P-12132/91; A-7922)
141.4200	r	(P-12132/91; A-7922)
141.4230	r	(P-12132/91; A-7922)
141.4240	r	(P-12132/91; A-7922)
141.4280	r	(P-12132/91; A-7922)
141.4320	r	(P-12132/91; A-7922)

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141.4360	r	(P-12132/91; A-7922)
141.4440	r	(P-12132/91; A-7922)
141.4480	r	(P-12132/91; A-7922)
141.4520	r	(P-12132/91; A-7922)
141.4560	r	(P-12132/91; A-7922)
141.4600	r	(P-12132/91; A-7922)
141.4640	r	(P-12132/91; A-7922)
141.4680	r	(P-12132/91; A-7922)
141.4720	r	(P-12132/91; A-7922)
141.4760	r	(P-12132/91; A-7922)
141.4800	r	(P-12132/91; A-7922)
144.275	am	(P-15926/91; A-5898)
144.300	n	(P-7455/91; A-3497)
144.325	n	(P-7455/91; A-3497)
144.350	n	(P-5806; W-14475)
144.375	n	(P-5806; W-14475)
144.400	n	(P-5806; W-14475)
144.405	n	(P-5806; W-14475)
144.425	n	(P-5806; W-14475)
144.450	n	(P-5806; W-14475)
147.25	am	(P-4218; RC-10500; A-14233)
147.50	am	(P-4218; RC-10500; A-14233)
147.75	am	(P-4218; RC-10500; A-14233)
147.100	am	(P-8906; A-17332)
147.150	am	(P-15940/91; A-6479) (P-13215) (E-13361)
147.205	am	(P-13215) (E-13361)
147.300	am	(P-8906; A-17332)
147.305	am	(P-8906; A-17332)
147.310	am	(P-8906; A-17332)
147.315	am	(P-8906; A-17332)
147.320	am	(P-8906; A-17332)
147.325	am	(P-8906; A-17332)
147.340	am	(P-8906; A-17332)
147.345	am	(P-8906; A-17332)
147.350	am	(P-8906; A-17332)
147.Tb.A	am	(P-7501/91; A-4035) (P-15940/91; A-6479)
147.Tb.B	am	(P-7501/91; A-4035) (P-15940/91; A-6479)
147.Tb.D	am	(P-4218; RC-10500; A-14233)
147.Tb.E	am	(P-4218; RC-10500; A-14233)
147.Tb.G	am	(P-4218; RC-10500; A-14233)
147.Tb.L	n	(P-4218; RC-10500; A-14233)
148.20	am	(P-15928/91; A-6255) (P-11719) (E-11942)
148.25	n	(P-14540) (E-14778)
148.30	am	(P-14540) (E-14778)
148.40	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.50	am	(P-14540) (E-14778)
148.60	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.70	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.80	am	(P-15928/91; A-6255) (E-11335)
148.82	n	(P-12826)
148.90	r	(P-15928/91; A-6255)
148.100	r	(P-15928/91; A-6255)
148.110	r	(P-15928/91; A-6255)
148.120	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.130	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.140	am	(P-15928/91; A-6255) (P-1786) (P-14540) (E-14778)
148.150	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.160	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.170	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.180	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.190	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.200	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.210	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.220	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.230	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.240	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.250	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.260	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.270	am	(P-15928/91; A-6255) (P-14540) (E-14778)

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148.280	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.290	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.300	am	(P-15928/91; A-6255)
148.310	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.320	am	(P-15928/91; A-6255) (P-14540) (E-14778)
148.400	n	(P-15928/91; A-6255)
149.5	am	(P-15931/91; A-6195) (P-11717) (E-11937)
149.10	n	(P-14535) (E-14733)
149.25	am	(P-15931/91; A-6195) (P-14535) (E-14733)
149.50	am	(P-15931/91; A-6195) (P-14535) (E-14733)
149.75	am	(P-15931/91; A-6195) (P-14535) (E-14733)
149.100	am	(P-15931/91; A-6195) (P-14535) (E-14733)
149.105	am	(P-15931/91; A-6195) (P-14535) (E-14733)
149.125	am	(P-15931/91; A-6195) (P-14535) (E-14733)
149.140	n	(P-14535) (E-14733)
149.150	am	(P-15931/91; A-6195) (P-14535) (E-14733)
149.175	r	(P-15931/91; A-6195)
149.200	r	(P-15931/91; A-6195)
149.205	r	(P-15931/91; A-6195)
149.225	r	(P-15931/91; A-6195)
149.250	r	(P-15931/91; A-6195)
149.275	r	(P-15931/91; A-6195)
149.300	r	(P-15931/91; A-6195)
149.305	r	(P-15931/91; A-6195)
149.325	r	(P-15931/91; A-6195)
150.10	n	(E-2258)
150.20	n	(E-2258)
150.30	n	(E-2258)
150.40	n	(E-2258)
150.50	n	(E-2258)
150.60	n	(E-2258)
160.5	am	(P-806/91; A-1852)
160.10	am	(P-806/91; A-1852)
160.20	am	(P-806/91; A-1852)
160.30	am	(P-2406; A-9997)
160.77	n	(P-8892)
160.85	n	(P-8892)
230.45	am	(P-3605; A-15401; O-15184; R-15590)
230.570	am	(P-3605; A-15401)
240.400	am	(E-2630) (P-11363; A-18767) (E-11625)
240.415	am	(E-2630) (P-11363; A-18767) (E-11625)
240.430	am	(P-17007/91; M-2930; A-11731) (E-17398/91; S-1744; W-2955; M-2943)
240.435	am	(P-17007/91; M-2930 A-11731) (E-17398/91; S-1744; W-2955; M-2943)
240.451	n	(P-11363; A-18767) (E-11625)
240.655	am	(E-4069; RC-6898) (P-14335/91; A-1140
240.720	am	(P-17007/91; M-2930) (E-17398/91; S-1744; W-2955; M-2943) (E-2901)
240.720	r	(P-11363; A-18767) (E-11625)
240.725	am	(P-17007/91; M-2930) (E-17398/91; S-1744; W-2955; M-2943) (E-2901)
240.725	r	(P-11363; A-18767) (E-11625)
240.726	n	(E-2630)
240.726	r	(P-11363; A-18767) (E-11625)
240.727	n	(P-11363; A-18767) (E-11625)
240.728	n	(P-11363; A-18767) (E-11625)
240.729	n	(P-12251; C-13662) (E-12615; O-15183; M-16680)
240.800	am	(E-2901) (P-11363; A-18767) (E-11625)
240.810	am	(E-2901) (P-11363; A-18767) (E-11625)
240.825	am	(E-2901) (P-11363; A-18767) (E-11625)

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240.855	am	(E-2901) (P-11363; A-18767) (E-11625)
240.1510	am	(P-15203)
240.1520	am	(P-15203)
240.1530	am	(P-15203)
240.1535	am	(P-15203)
240.1540	am	(P-15203)
240.1545	am	(P-15203)
240.1550	am	(P-15203)
240.1555	am	(P-15203)
240.1560	am	(P-15203)
240.1565	am	(P-15203)
240.1570	am	(P-15203)
240.1575	am	(P-15203)
240.1580	am	(P-15203)
240.1590	am	(P-15203)
240.1600	am	(P-4087; A-14565)
240.1605	am	(P-4087; A-14565)
240.1610	am	(P-4087; A-14565)
240.1620	am	(P-4087; A-14565)
240.1625	am	(P-4087; A-14565)
240.1630	am	(P-4087; A-14565)
240.1635	am	(P-4087; A-14565)
240.1640	am	(P-4087; A-14565)
240.1645	am	(P-4087; A-14565)
240.1650	am	(P-4087; A-14565)
240.1655	am	(P-4087; A-14565)
240.1660	am	(P-4087; C-5083; A-14565)
240.1661	n	(P-4087; C-5083; A-14565)
240.1665	am	(P-4087;A-14565)
240.1800	am	(P-15203)
240.1850	r	(P-15203)
240.2020	am	(P-15203)
240.2050	am	(P-15203)
300.130	am	(P-14988)
300.160	am	(P-14988)
.20	am	(P-7565)
.390	am	(P-11979)
304.2	am	(P-7545)
305.10	#	(P-5403)
305.10	re	(A-12772)
305.20	am	(P-5403; A-16552)
305.20	re	(A-12772)
305.30	am	(P-5403; A-16552)
305.30	re	(A-12772)
305.40	#	(P-5403; A-16552)
305.40	re	(A-12772)
305.50	am	(P-5403; A-16552)
305.50	re	(A-12772)
305.60	am	(P-5403; A-16552)
305.60	re	(A-12772)
305.70	n	(P-5403; A-16552)
305.70	re	(A-12772)
305.80	n	(P-5403; A-16552)
305.80	re	(A-12772)
305.90	#	(P-5403)
305.90	re	(A-12772)
305.100	#	(P-5403)
305.100	re	(A-12772)
305.110	#	(P-5403)
305.110	re	(A-12772)
305.120	#	(P-5403; A-16552)
305.120	re	(A-12772)
305.130	am	(P-5403; A-16552)
305.130	re	(A-12772)
305.140	#	(P-5403)
305.140	re	(A-12772)
309.1	r	(P-7982)
309.2	r	(P-7982)
309.3	r	(P-7982)
309.4	r	(P-7982)
309.5	r	(P-7982)
309.6	r	(P-7982)
309.7	r	(P-7982)
309.8	r	(P-7982)
309.9	r	(P-7982)
309.10	r	(P-7982)
309.11	r	(P-7982)
309.12	r	(P-7982)
309.13	r	(P-7982)
309.14	r	(P-7982)
309.15	r	(P-7982)
309.16	r	(P-7982)
309.17	r	(P-7982)
309.18	r	(P-7982)
309.19	r	(P-7982)
309.20	r	(P-7982)
309.21	r	(P-7982)
309.22	r	(P-7982)
309.23	r	(P-7982)
335.100	am	(P-8415/91; A-7633) (P-12254)
335.102	am	(P-8415/91; A-7633) (P-12254)
335.200	am	(P-8415/91; A-7633) (P-12254)
335.202	am	(P-8415/91; A-7633) (P-12254)

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335.300	am	(P-8415/91; A-7633) (P-12254)
335.	am	(P-8415/91; A-7633) (P-12254)
335.304	am	(P-8415/91; A-7633) (P-12245)
335.306	am	(P-8415/91; A-7633) (P-12254)
335.308	r	(P-8415/91; A-7633) (P-12254)
335.310	am	(P-8415/91; A-7633) (P-12254)
335.312	am	(P-8415/91; A-7633) (P-12254)
335.314	am	(P-8415/91; A-7633) (P-12254)
335.316	am	(P-8415/91; A-7633) (P-12254)
335.318	am	(P-8415/91; A-7633) (P-12254)
335.320	am	(P-8415/91; A-7633) (P-12254)
335.326	am	(P-8415/91; A-7633) (P-12254)
335.328	am	(P-8415/91; A-7633) (P-12254)
335.330	am	(P-8415/91; A-7633) (P-12254)
335.332	am	(P-8415/91; A-7633)
335.334	am	(P-8415/91; A-7633)
335.336	am	(P-8415/91; A-7633)
335.338	am	(P-8415/91; A-7633)
335.Ap.A	n	(P-12254)
336.10	n	(P-7963) (P-7963)
336.20	n	(P-7963)
336.30	n	(P-7963)
336.40	n	(P-7963)
336.50	n	(P-7963)
336.60	n	(P-7963)
336.70	n	(P-7963)
336.80	n	(P-7963)
336.90	n	(P-7963)
336.100	n	(P-7963)
336.110	n	(P-7963)
336.120	n	(P-7963)
336.130	n	(P-7963)
336.140	n	(P-7963)
336.150	n	(P-7963)
336.160	n	(P-7963)
336.170	n	(P-7963)
337.10	n	(P-7999)
337.20	n	(P-7999)
337.30	n	(P-7999)
337.40	n	(P-7999)
337.50	n	(P-7999)
337.60	n	(P-7999)
337.70	n	(P-7999)
337.80	n	(P-7999)
337.90	n	(P-7999)
337.100	n	(P-7999)
337.110	n	(P-7999)
337.120	n	(P-7999)
337.130	n	(P-7999)
337.140	n	(P-7999)
337.150	n	(P-7999)
337.160	n	(P-7999)
337.170	n	(P-7999)
337.180	n	(P-7999)
337.190	n	(P-7999)
337.200	n	(P-7999)
337.210	n	(P-7999)
337.220	n	(P-7999)
337.230	n	(P-7999)
337.240	n	(P-7999)
337.250	n	(P-7999)
352.Ap.A	am	(P-13229/91; A-3924)
377.2	am	(P-7553)
377.4	am	(P-7553)
378.1	r	(P-7561)
378.2	r	(P-7561)
378.3	r	(P-7561)
378.4	r	(P-7561)
402.15	am	(P-11707) (E-11879)
406.2	am	(E-15088/91; M-2269) (P-1473491; A-7602)
406.4	am	(P-14734/91; A-7602)
406.5	am	(P-14734/91; A-7602)
406.6	am	(P-14734/91; A-7602)
406.7	am	(P-14734/91; A-7602)
406.8	am	(P-14734/91; A-7602)
406.9	am	(P-14734/91; A-7602)
406.10	am	(P-14734/91; A-7602)
406.11	am	(P-14734/91; A-7602)
406.12	am	(P-14734/91; A-7602)
406.13	am	(P-14734/91; A-7602)
		406.14am(P-14734/91; A-7602)
406.22	am	(P-14734/91; A-7602)
406.24	am	(P-14734/91; A-7602)
407.29	am	(P-14729/91; A-7597)
408.5	am	(P-14764/91; A-8950)

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408.7	n	(P-14764/91; A-8950)
408.20	am	(P-14764/91; A-8950)
408.30	am	(P-14764/91; A-8950)
408.40	am	(P-14764/91; A-8950)
408.50	am	(P-14764/91; A-8950)
408.60	am	(P-14764/91; A-8950)
408.65	am	(P-14764/91; A-8950)
408.70	am	(P-14764/91; A-8950)
408.105	am	(P-14764/91; A-8950)
510.10	am	(P-69; A-8537)
510.20	am	(P-69; A-8537)
510.30	am	(P-69; A-8537)
510.40	am	(P-69; A-8537)
510.70	am	(P-69; A-8537)
510.80	am	(P-69; A-8537)
510.90	am	(P-69; A-8537)
510.100	am	(P-69; A-8537)
510.110	am	(P-69; A-8537)
540.50	am	(P-18755)
562.20	am	(P-14189)
562.30	am	(P-14189)
567.20	am	(P-10403)
567.30	am	(P-10403)
567.100	am	(P-10403)
587.70	am	(P-18110/91; A-8235)
597.20	am	(P-3440; A-12583)
673.10	n	(E-11682) (P-13224; W-13983)
673.10	r	(E-13977)
673.20	n	(E-11682) (P-13224; W-13983)
673.20	r	(E-13977)
673.30	n	(E-11682) (P-13224; W-13983)
673.30	r	(E-13977)
673.40	n	(E-11682) (P-13224; W-13983)
673.40	r	(E-13977)
673.50	n	(E-11682) (P-13224; W-13983)
673.50	r	(E-13977)
674.10	n	(E-2690)
674.20	n	(E-2690)
674.30	n	(E-2690)
674.40	n	(E-2690)
674.50	n	(E-2690)
683.100	r	(E-2688) (E-11679) (P-13221; W-13982) (E-13974)
685.500	am	(P-14392/91; A-4529)
685.550	n	(P-14392/91; A-4529)
685.600	am	(P-16876/91; A-6868)
690.100	am	(P-15065)
690.200	am	(P-15065)
690.300	am	(P-15065)
690.400	am	(P-15065)
714.30	am	(P-3067; A-16179) (RC-13373)
714.100	am	(P-3067; A-16179) (RC-13373)
714.110	am	(P-3067; A-16179) (RC-13373)
714.120	am	(P-3067; A-16179) (RC-13373)
714.130	am	(P-3067; A-16179) (RC-13373)
714.300	n	(P-3067; A-16179) (RC-13373)
714.310	am	(P-3067; A-16179) (RC-13373)
730.700	r	(P-10397)
787.10	n	(P-17/91; A-2882)
787.20	n	(P-17/91; A-2882)
787.30	n	(P-17/91; A-2882)
787.40	n	(P-17/91; A-2882)
787.50	n	(P-17/91; A-2882)
830.50	am	(P-18759)
840.10	am	(P-15390/91; A-10301)
840.20	am	(P-15390/91; A-10301)
840.30	am	(P-15390/91; A-10301)
840.40	am	(P-15390/91; A-10301)
840.50	am	(P-15390/91; A-10301)
840.60	n	(P-15390/91; A-10301)
840.70	n	(P-15390/91; A-10301)
840.75	am	(P-15390/91; A-10301)
840.80	am	(P-15390/91; A-10301)
840.90	am	(P-15390/91; A-10301)
840.95	n	(P-15390/91; A-10301)
840.100	n	(P-15390/91; A-10301)
840.105	n	(P-15390/91; A-10301)
840.110	n	(P-15390/91; A-10301)
840.115	n	(P-15390/91; A-10301)
843.10	am	(P-15405/91; A-10316)
843.20	am	(P-15405/91; A-10316)
843.30	am	(P-15405/91; A-10316)
843.50	am	(P-15405/91; A-10316)
843.60	am	(P-15405/91; A-10316)
843.61	am	(P-15405/91; A-10316)
843.70	am	(P-15405/91; A-10316)
843.80	am	(P-15405/91; A-10316)
843.120	am	(P-15405/91; A-10316)

TITLE 89 (CONT'D)

843.121	am	(P-15405/91; A-10316)
843.130	am	(P-15405/91; A-10316)
843.150	am	(P-15405/91; A-10316)
843.160	am	(P-15405/91; A-10316)
843.180	am	(P-15405/91; A-10316)
845.10	am	(P-11572/91/ A-2615)
845.20	am	(P-11572/91/ A-2615)
845.30	am	(P-11572/91/ A-2615)
845.40	am	(P-11572/91/ A-2615)
900.310	am	(P-12989/91; A-5311)
900.321	am	(P-12989/91; A-5311)
900.322	am	(P-12989/91; A-5311)
900.330	am	(P-12989/91; A-5311)
900.331	am	(P-12989/91; A-5311)
900.342	am	(P-12989/91; A-5311)
900.343	am	(P-12989/91; A-5311)
900.345	am	(P-12989/91; A-5311)
900.348	am	(P-12989/91; A-5311)
1200.10	am	(P-15354)
1200.20	am	(P-15354)
1200.30	am	(P-15354)
1200.40	am	(P-15354)
1200.50	am	(P-15354)
1200.60	am	(P-15354)
1200.70	am	(P-15354)
1200.80	am	(P-15354)
1200.100	am	(P-15354)
1200.110	am	(P-15354)
1200.Ap.A	am	(P-15354)
1300.110	am	(P-5141/91; A-4819)
1300.120	am	(P-5141/91; A-4819)
1300.130	am	(P-5141/91; A-4819)
1300.200	am	(P-5141/91; A-4819)
1300.205	n	(P-5141/91; A-4819)
1300.210	am	(P-5141/91; A-4819)

TITLE 92

10.30	am	(E-16407)
10.50	am	(E-16407)
10.60	am	(E-16407)
10.70	am	(E-16407)
10.80	am	(E-16407)
10.90	n	(E-16407)
44.30	am	(P-4807; A-12601)
50.5	r	(P-6139; A-13094)
50.10	r	(P-6139; A-13094)
50.10	n	(P-6153; A-13096)
50.20	r	(P-6139; A-13094)
50.20	n	(P-6153; A-13096)
50.30	r	(P-6139; A-13094)
50.30	n	(P-6153; A-13096)
50.40	r	(P-6139; A-13094)
50.40	n	(P-6153; A-13096)
50.50	r	(P-6139; A-13094)
50.50	n	(P-6153; A-13096)
50.60	r	(P-6139; A-13094)
50.60	n	(P-6153; A-13096)
50.70	r	(P-6139; A-13094)
50.70	n	(P-6153; A-13096)
50.80	r	(P-6139; A-13094)
50.80	n	(P-6153; A-13096)
50.90	r	(P-6139; A-13094)
50.90	n	(P-6153; A-13096)
50.100	r	(P-6139; A-13094)
50.100	n	(P-6153; A-13096)
50.110	r	(P-6139; A-13094)
50.110	n	(P-6153; A-13096)
50.120	r	(P-6139; A-13094)
50.120	n	(P-6153; A-13096)
50.130	r	(P-6139; A-13094)
50.130	n	(P-6153; A-13096)
50.140	r	(P-6139; A-13094)
50.140	n	(P-6153; A-13096)
50.150	r	(P-6139; A-13094)
50.160	r	(P-6139; A-13094)
50.Ex.A	n	(P-6153; A-13096)
62.30	am	(P-4813; A-12608)
97.10	n	(P-19709/91; P-10475)
97.20	n	(P-19709/91; P-10475)
97.30	n	(P-19709/91; P-10475)
97.40	n	(p-19709/91; P-10475)
97.50	n	(P-19709/91; P-10475)
97.60	n	(P-19709/91; P-10475)
97.70	n	(P-19709/91; P-10475)
97.80	n	(p-19709/91; P-10475)
97.90	n	(P-19709/91; P-10475)
97.100	n	(P-19709/91; P-10475)
97.110	n	(P-19709/91; P-10475)
97.120	n	(p-19709/91; P-10475)
97.130	n	(P-19709/91; P-10475)
97.140	n	(P-19709/91; P-10475)
171.5	n	(P-3856; A-12208)
171.6	am	(P-15995/91; W-2696)
171.6	#	(P-3856; A-12208)
171.1000	am	(P-15995/91; W-2696)
		(P-3856; A-12208)
172.2000	am	(P-16003/91; W-2697)
		(P-3864; A-11851)
172.2215	am	(P-16003/91; W-2697)
		(P-3864; A-11851)

TITLE 92 (CONT'D)

173.3000	am	(P-16008/91; W-2698)
		(P-3869; A-11856)
177.2000	am	(P-15990/91; W-2695)
		(P-3847; A-11843)
178.336.1.1	am	(P-16015/91; W-2699)
		(P-3876; A-11863)
178.336.1.5	am	(P-16015/91; W-2699)
		(P-3876; A-11863)
178.2000	am	(P-16015/91; W-2699)
		(P-3876; A-11863)
179.2000	am	(P-16027/91; W-2700)
		(P-3888; A-11875)
180.2000	am	(P-3851; A-11847)
390.1010	am	(P-7815; A-14435)
390.1020	am	(P-7815; A-14435)
390.2000	am	(P-7815; A-14435)
391.1000	am	(P-7832; A-14715)
391.2000	am	(P-16653/91; A-5362)
		(P-7832; A-14715)
395.2000	am	(P-7805; A-14425)
396.2010	am	(P-7811; A-14431)
440.420	am	(P-13041/91; A-1655)
440.520	am	(P-15835)
440.II.A	am	(P-13041/91; A-1655)
440.II.B	n	(P-13041/91; A-1655)
442.285	am	(P-13072/91; A-1685)
442.435	am	(P-15845)
442.II.A	am	(P-13072/91; A-1685)
442.II.E	n	(P-13072/91; A-1685)
456.50	am	(P-9453; A-16649)
456.60	am	(P-9453; A-16649)
456.70	am	(P-9453; A-16649)
456.80	n	(P-9453; A-16649)
456.90	n	(P-9453; A-16649)
530.10	n	(P-2940/91; A-2193)
530.10	r	(P-3003/91; A-2256)
530.20	n	(P-2940/91; A-2193)
530.20	r	(P-3003/91; A-2256)
530.30	n	(P-2940/91; A-2193)
530.30	r	(P-3003/91; A-2256)
530.40	n	(P-2940/91; A-2193)
530.50	n	(P-2940/91; A-2193)
530.60	n	(P-2940/91; A-2193)
530.100	n	(P-2940/91; A-2193)
530.101	r	(P-3003/91; A-2256)
530.102	r	(P-3003/91; A-2256)
530.103	r	(P-3003/91; A-2256)
530.104	r	(P-3003/91; A-2256)
530.105	r	(P-3003/91; A-2256)
530.106	r	(P-3003/91; A-2256)
530.107	r	(P-3003/91; A-2256)
530.108	r	(P-3003/91; A-2256)
530.109	r	(P-3003/91; A-2256)
530.110	n	(P-2940/91; A-2193)
530.110	r	(P-3003/91; A-2256)
530.111	r	(P-3003/91; A-2256)
530.112	r	(P-3003/91; A-2256)
530.113	r	(P-3003/91; A-2256)
530.114	r	(P-3003/91; A-2256)
530.115	r	(P-3003/91; A-2256)
530.116	r	(P-3003/91; A-2256)
530.117	r	(P-3003/91; A-2256)
530.118	r	(P-3003/91; A-2256)
530.119	r	(P-3003/91; A-2256)
530.120	n	(P-2940/91; A-2193)
530.120	r	(P-3003/91; A-2256)
530.121	r	(P-3003/91; A-2256)
530.122	r	(P-3003/91; A-2256)
530.123	r	(P-3003/91; A-2256)
530.130	n	(P-2940/91; A-2193)
530.140	n	(P-2940/91; A-2193)
530.150	n	(P-2940/91; A-2193)
530.200	n	(P-2940/91; A-2193)
530.201	r	(P-3003/91; A-2256)
530.202	r	(P-3003/91; A-2256)
530.203	r	(P-3003/91; A-2256)
530.210	n	(P-2940/91; A-2193)
530.220	n	(P-2940/91; A-2193)
530.225	n	(P-2940/91; A-2193)
530.230	n	(P-2940/91; A-2193)
530.240	n	(P-2940/91; A-2193)
530.250	n	(P-2940/91; A-2193)
530.260	n	(P-2940/91; A-2193)
530.270	n	(P-2940/91; A-2193)
530.275	n	(P-2940/91; A-2193)
530.280	n	(P-2940/91; A-2193)
530.290	n	(P-2940/91; A-2193)
530.300	n	(P-2940/91; A-2193)
530.301	r	(P-3003/91; A-2256)
530.	r	(P-3003/91; A-2256)
530.303	r	(P-3003/91; A-2256)
530.310	n	(P-2940/91; A-2193)
530.320	n	(P-2940/91; A-2193)
530.330	n	(P-2940/91; A-2193)
530.400	n	(P-2940/91; A-2193)
530.401	r	(P-3003/91; A-2256)
530.402	r	(P-3003/91; A-2256)
530.403	r	(P-3003/91; A-2256)
530.410	n	(P-2940/91; A-2193)
530.420	n	(P-2940/91; A-2193)

TITLE 92 (CONT'D)

530.430	n	(P-2940/91; A-2193)
530.440	n	(P-2940/91; A-2193)
530.450	n	(P-2940/91; A-2193)
530.460	n	(P-2940/91; A-2193)
530.470	n	(P-2940/91; A-2193)
530.480	n	(P-2940/91; A-2193)
530.500	n	(P-2940/91; A-2193)
530.501	r	(P-3003/91; A-2256)
530.502	r	(P-3003/91; A-2256)
530.503	r	(P-3003/91; A-2256)
530.510	n	(P-2940/91; A-2193)
530.520	n	(P-2940/91; A-2193)
530.530	n	(P-2940/91; A-2193)
530.600	n	(P-2940/91; A-2193)
530.601	r	(P-3003/91; A-2256)
530.602	r	(P-3003/91; A-2256)
530.603	r	(P-3003/91; A-2256)
530.610	n	(P-2940/91; A-2193)
530.700	n	(P-2940/91; A-2193)
530.701	r	(P-3003/91; A-2256)
530.702	r	(P-3003/91; A-2256)
530.710	n	(P-2940/91; A-2193)
530.800	n	(P-2940/91; A-2193)
530.801	r	(P-3003/91; A-2256)
530.802	r	(P-3003/91; A-2256)
530.803	r	(P-3003/91; A-2256)
530.804	r	(P-3003/91; A-2256)
530.810	n	(P-2940/91; A-2193)
530.820	n	(P-2940/91; A-2193)
530.830	n	(P-2940/91; A-2193)
530.840	n	(P-2940/91; A-2193)
530.900	n	(P-2940/91; A-2193)
530.901	r	(P-3003/91; A-2256)
530.902	r	(P-3003/91; A-2256)
530.903	r	(P-3003/91; A-2256)
530.904	r	(P-3003/91; A-2256)
530.905	r	(P-3003/91; A-2256)
530.906	r	(P-3003/91; A-2256)
530.907	r	(P-3003/91; A-2256)
530.908	r	(P-3003/91; A-2256)
530.909	r	(P-3003/91; A-2256)
530.11.A	n	(P-2940/91; A-2193)
700.10	n	(P-17235)
700.20	n	(P-17235)
700.30	n	(P-17235)
700.40	n	(P-17235)
700.50	n	(P-17235)
700.60	n	(P-17235)
700.70	n	(P-17235)
700.80	n	(P-17235)
700.90	n	(P-17235)
700.100	n	(P-17235)
700.110	n	(P-17235)
704.10	n	(P-17244)
704.20	n	(P-17244)
704.30	n	(P-17244)
704.40	n	(P-17244)
704.50	n	(P-17244)
704.60	n	(P-17244)
704.70	n	(P-17244)
704.80	n	(P-17244)
704.90	n	(P-17244)
704.100	n	(P-17244)
704.110	n	(P-17244)
704.120	n	(P-17244)
704.130	n	(P-17244)
704.140	n	(P-17244)
704.150	n	(P-17244)
704.Ap.A	n	(P-17244)
708.70	am	(P-8193/91; A-194)
708.70	am	(P-8193/91; A-194)
787.10	n	(P-17/91; A-2882)
787.20	n	(P-17/91; A-2882)
787.30	n	(P-17/91; A-2882)
787.40	n	(P-17/91; A-2882)
787.50	n	(P-17/91; A-2882)
1002.20	am	(P-6790; A-13088)
1002.45	n	(P-6790; A-13088)
1010.420	am	(P-5240; A-12587)
1030.11	am	(P-1271)
1030.12	n	(E-12228)
1030.30	am	(P-2449; A-18087)
1030.84	am	(P-14198/91; A-2182) C-2957)
1030.115	am	(P-17229)
1030.120	am	(P-12138)
1030.130	am	(P-12138)
1070.20	am	(P-15428/91; A-2172)
1070.40	am	(P-15428/91; A-2172)
1309.10	n	(P-3238; A-11827)
1309.20	n	(P-3238; A-11827)
1309.30	n	(P-3238; A-11827)
1311.10	n	(P-4195/91; W-2942)
1440.20	am	(P-5139; A-13496)

TITLE 95

116.40	am	(P-558; A-7704)
121.10	n	(P-561; A-7707; RQ-10082; EC;10503)
121.20	n	(P-561; A-7707)
121.30	n	(P-561; A-7707)

TITLE 95 (CONT'D)

121.40	n	(P-561; A-7707)
121.50	n	(P-561; A-7707)
121.60	n	(P-561; A-7707)
121.70	n	(P-561; A-7707)
121.80	n	(P-561; A-7707)
121.90	n	(P-561; A-7707)
121.100	n	(P-561; A-7707)
121.110	n	(P-561; A-7707)
121.120	n	(P-561; A-7707)
121.130	n	(P-561; A-7707)
121.140	n	(P-561; A-7707)
121.150	n	(P-561; A-7707)
121.160	n	(P-561; A-7707)
121.170	n	(P-561; A-7707)
121.180	n	(P-561; A-7707)
121.190	n	(P-561; A-7707)
121.200	n	(P-561; A-7707)
121.210	n	(P-561; A-7707)
121.220	n	(P-561; A-7707)
121.230	n	(P-561; A-7707)
122.10	n	(P-2113)
122.20	n	(P-2113)
122.30	n	(P-2113)
122.40	n	(P-2113)
122.50	n	(P-2113)
122.60	n	(P-2113)
122.70	n	(P-2113)